GRUNDIG

# TV Service Manual

## CUC 1832

**Atlanta**
**SE 7250 PIP/DOLBY**
(G.CI 2575, VNM)

**Atlanta**
**SE 7250/8 DOLBY**
(G.CI 7375, VNM)

**Sydney**
**SE 7230 DOLBY**
(G.CI 2475, VNM)

## CUC 1930

**ARGANTO 70**
**MW 70 – 510/8 DPL**
(G.CH 5975, VNM)

## CUC 1931

**ARGANTO 82**
**MW 82 – 510/8 DPL**
(G.CH 5852, VNM)
(G.CH 5875, VNM)

Zusätzlich erforderliche Unterlagen für den Komplettservice
Additionally required Service Documents for the Complete Service

| Service Manual | Service Training |
|---|---|
| Sicherheit Safety | Basic 3 |
| Materialnr./Part No. 72010 800 0000 | Materialnr./Part No. Ⓓ 72010 350 3700 |


**Grundig Service**

*Hotline Deutschland...*
*...Mo.-Fr. 8.00-18.00 Uhr*

*Technik:*

| | |
|---|---|
| *TV* | *0180/52318-41* |
| *TV* | *0180/52318-49* |
| *SAT* | *0180/52318-48* |
| *VCR/LiveCam* | *0180/52318-42* |
| *HiFi/Audio* | *0180/52318-43* |
| *Car Audio* | *0180/52318-44* |
| *Telekommunikation* | *0180/52318-45* |
| *Fax:* | *0180/52318-51* |
| *Planatron (8.00-22.00 Uhr)* | *0180/52318-99* |

*Ersatzteil-Verkauf:* *Mo.-Fr. 8.00-19.00 Uhr*

| | |
|---|---|
| *Telefon:* | *0180/52318-40* |
| *Fax:* | *0180/52318-50* |



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Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Materialnummer72010 800 0000, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!

The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 72010 800 0000, as well as the respective national deviations.

(D)

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(GB)

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# Allgemeiner Teil

## Meßgeräte

Beachten Sie bitte das Grundig Meßtechnik-Programm, das Sie unter folgender Adresse erhalten:

# General Section

## Test Equipment

Please note the Grundig Catalog "Test and Measuring Equipment" obtainable from:

Grundig AG
Geschäftsbereich Instruments
Test- und Meßsysteme
Würzburger Str. 150
D-90766 Fürth
Tel.: 0911 / 703-4118
Fax: 0911 / 703-4130
eMail: instruments@grundig.de
Internet: http://www.grundig-instruments.de

## Allgemeiner Hinweis

**Ersatzteillisten**

Die vierstelligen, von der Ersatzteilbezeichnung abgesetzten Zahlen beziehen sich auf die letzten vier Stellen der Materialnummern der Chassis oder der Bausteine.

Beispiel: 3100 ≙ 29704 004 **3100**

## General Note

**Spare Parts Lists**

The set off four figures in the designation of the spare parts refer to the four figures at the end of the part numbers of the chassis or modules.

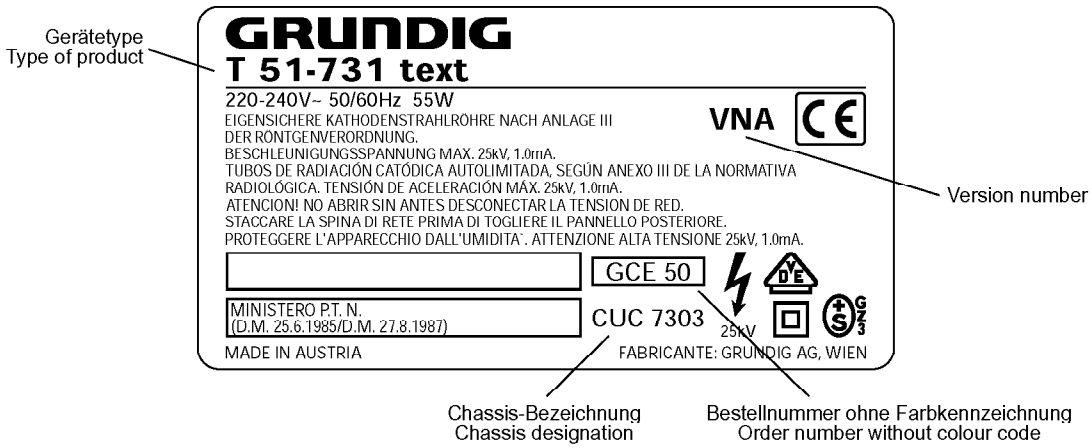
Example: 3100 ≙ 29704 004 **3100**

## Typenschild des Gerätes

Zusätzlich zum Gerätetyp und der Chassisbezeichnung enthält das Gerätetypenschild künftig eine sogenannte "Version number" z.B. VNA. Diese Kennzeichnung gibt Aufschluß über den technischen/ mechanischen Fertigungsstand.
Für die Bestellung von Ersatzteilen sind deshalb folgende Angaben unbedingt erforderlich:
- Gerätetype (z.B. "T 51-731 text")
- Chassis-Bezeichnung (z.B. "CUC 7303")
- Version number (z.B. "VNA")
- Materialnummer des Ersatzteils

## Type Label on the set

In addition to the type of the TV set and the designation of the chassis, a so-called "Version number", e.g. VNA, is printed on the type label. This identification gives information on the technical/mechanical state of production.
Do not fail to give the following particulars when ordering spare parts:
- type of TV set (e.g. "T 51-731 text")
- name of chassis (e.g. "CUC 7303")
- version number (e.g. "VNA")
- part number spare part


Gerätetype
Type of product
GRUNDIG
T 51-731 text
220-240V~ 50/60Hz 55W
EIGENSICHERE KATHODENSTRAHLRÖHRE NACH ANLAGE III DER RÖNTGENVERORDNUNG.
BESCHLEUNIGUNGSSPANNUNG MAX. 25kV, 1.0mA.
TUBOS DE RADIACIÓN CATÓDICA AUTOLIMITADA, SEGÚN ANEXO III DE LA NORMATIVA RADIOLÓGICA. TENSIÓN DE ACELERACIÓN MÁX. 25kV, 1.0mA.
ATENCION! NO ABRIR SIN ANTES DESCONECTAR LA TENSION DE RED.
STACCARE LA SPINA DI RETE PRIMA DI TOGLIERE IL PANNELLO POSTERIORE.
PROTEGGERE L'APPARECCHIO DALL'UMIDITA'. ATTENZIONE ALTA TENSIONE 25kV, 1.0mA.
VNA
Version number
GCE 50
MINISTERO P.T. N.
(D.M. 25.6.1985/D.M. 27.8.1987)
CUC 7303
25kV
MADE IN AUSTRIA
FABRICANTE: GRUNDIG AG, WIEN
Chassis-Bezeichnung
Chassis designation
Bestellnummer ohne Farbkennzeichnung
Order number without colour code

# Technische Daten / Technical Data

| | **Atlanta**<br>**SE 7250 PIP/DOLBY**<br><br>**(VNM)**<br>**CUC 1832** | **Atlanta**<br>**SE 7250/8 DOLBY**<br><br>**(VNM)**<br>**CUC 1832** | **Sydney**<br>**SE 7230 DOLBY**<br><br>**(VNM)**<br>**CUC 1832** |
|---|---|---|---|
| **Bildröhre / Picture Tube** | | | |
| Sichtbares Bild<br>Visible picture | 68cm | 68cm | 68cm |
| Bildschirmdiagonale<br>Screen diagonal | 72cm (29") MEGATRON Super Flat,<br>Black Line S, CCS, Invar, Toshiba/108° | 72cm (29") MEGATRON Super Flat,<br>Black Line S, CCS, Invar, Toshiba/108° | 72cm (29") MEGATRON Super Flat,<br>Black Line S, CCS, Invar, Toshiba/108° |
| Formatumschaltung<br>Format switching | 4:3, 16:9 Panorama Zoom,<br>Format Automatic 4:3/16:9 | 4:3, 16:9 Panorama Zoom,<br>Format Automatic 4:3/16:9 | 4:3, 16:9 Panorama Zoom,<br>Format Automatic 4:3/16:9 |
| **Elektronik / Electronic** | | | |
| Programmspeicherplätze<br>Programme positions | 99 + 3 AV<br>(bei Nachrüstung SAT/<br>when retrofitted with SAT)<br>199 TV/SAT + 59 Radio + 3 AV | 99 + 3 AV<br>(bei Nachrüstung SAT/<br>when retrofitted with SAT)<br>199 TV/SAT + 59 Radio + 3 AV | 99 + 3 AV<br>(bei Nachrüstung SAT/<br>when retrofitted with SAT)<br>199 TV/SAT + 59 Radio + 3 AV |
| TV Guide | ja / yes | ja / yes | ja / yes |
| Easy dialog | ja / yes | ja / yes | ja / yes |
| Tuner | PLL Frequenz Synthesizer Tuning UHF/VHF,<br>globale Pinbelegung<br>PLL frequency synthesizer tuning UHF/VHF,<br>global pinning | PLL Frequenz Synthesizer Tuning UHF/VHF,<br>globale Pinbelegung<br>PLL frequency synthesizer tuning UHF/VHF,<br>global pinning | PLL Frequenz Synthesizer Tuning UHF/VHF,<br>globale Pinbelegung<br>PLL frequency synthesizer tuning UHF/VHF,<br>global pinning |
| TV-Normen<br>TV-Standards | PAL, SECAM, NTSC 4.43MHz<br>B/G | PAL, SECAM, NTSC 4.43MHz,<br>über / via AV 3.58MHz, B/G, L/L', I, DK/K'/D | PAL, SECAM, NTSC 4.43MHz<br>B/G |
| Stereo Systeme<br>Stereo systems | Deutsch A2 / German A2 | Deutsch A2 / German A2 (B/G/D/K)<br>Nicam 5.85 (Skan, B, F, E) + 6.52MHz (GB) | Deutsch A2 / German A2 |
| Videotext<br>Teletext | Megatext Level 2.5, VPS, 512 Seiten<br>Megatext level 2.5, VPS, 512 pages | Megatext Level 2.5, VPS, 512 Seiten<br>Megatext level 2.5, VPS, 512 pages | Megatext Level 2.5, VPS, 512 Seiten<br>Megatext level 2.5, VPS, 512 pages |
| Musikleistung mit DPL<br>Music power with DPL | – | – | – |
| Musikleistung ohne externe LS<br>Music power without external LS | Stereo 2x25W | Stereo 2x25W | Stereo 2x25W |
| **Anschlüsse Front / Connections Front** | | | |
| Kopfhörer<br>Headphones | Stereo 3,5mm Klinkenbuchse, Lautstärke regelbar, individuelle Tonkanalwahl bei 2-Ton-Empfang<br>Stereo 3.5mm jack, adjustable volume, individual channel selection with dual-sound broadcasts | | |
| Cinch-AV-Buchse<br>Cinch AV socket | 1x FBAS Video / in<br>1x CCVS Video / in<br>2x Audio / in | 1x FBAS Video / in<br>1x CCVS Video / in<br>2x Audio / in | 1x FBAS Video / in<br>1xCCVS Video / in<br>2x Audio / in |
| S-Video | 4-polige Buchse Y-Chroma / in<br>4-pin socket Y-Chroma / in | 4-polige Buchse Y-Chroma / in<br>4-pin socket Y-Chroma / in | 4-polige Buchse Y-Chroma / in<br>4-pin socket Y-Chroma / in |
| **Anschlüsse Rückwand / Connections Rear Panel** | | | |
| Euro AV 1 (schwarz/black) | FBAS Ein-/Ausgang, RGB Eingang, SBAS Ein-<br>/Ausgang, Megalogic, Datalink für VCR-<br>Fernbedienung, Decoder, 16:9 / Pin8<br>CCVS in /output, RGB input, SCVS in /output<br>Megalogic, datalink for VCR remote control,<br>decoder capable, 16:9 / Pin 8 | FBAS Ein-/Ausgang, RGB Eingang, SBAS Ein-<br>/Ausgang, Megalogic, Datalink für VCR<br>Fernbedienung, Decoder, 16:9 / Pin8<br>CCVS in /output, RGB input, SCVS in /output<br>Megalogic, datalink for VCR remote control,<br>decoder capable, 16:9 / Pin 8 | FBAS Ein-/Ausgang, RGB Eingang, SBAS Ein-<br>/Ausgang, Megalogic, Datalink für VCR<br>Fernbedienung, Decoder, 16:9 / Pin8<br>CCVS in /output, RGB input, SCVS in /output<br>Megalogic, datalink for VCR remote control,<br>decoder capable, 16:9 / Pin 8 |
| Euro AV 2 (orange) | FBAS Ein-/Ausgang, RGB Eingang, SBAS<br>Eingang, Datalink für VCR Fernbedienung,<br>Decoder, 16:9 / Pin8<br>CCVS in-/output, RGB input, SCVS input,<br>datalink for VCR remote control, decoder<br>capable, 16:9 / Pin8 | FBAS Ein-/Ausgang, RGB Eingang, SBAS<br>Eingang, Datalink für VCR Fernbedienung,<br>Decoder, 16:9 / Pin8<br>CCVS in-/output, RGB input, SCVS input,<br>datalink for VCR remote control, decoder<br>capable, 16:9 / Pin8 | FBAS Ein-/Ausgang, RGB Eingang, SBAS<br>Eingang, Datalink für VCR Fernbedienung,<br>Decoder, 16:9 / Pin8<br>CCVS in-/output, RGB input, SCVS input,<br>datalink for VCR remote control, decoder<br>capable, 16:9 / Pin8 |
| Euro AV 3 (blau/blue) | – | – | – |
| Standard VGA / 2 Cinch NF/in<br>Standard VGA / 2 Cinch AF/in | nachrüstbar<br>retrofittable | nachrüstbar<br>retrofittable | nachrüstbar<br>retrofittable |
| Lautsprecherbuchsen<br>Loudspeaker sockets | – | – | – |
| Cinch-NF-Buchse Ausgang<br>Cinch-AF socket output | Audio Stereoausgang mit regelbarem oder<br>konstantem Pegel<br>Audio stereo output with variable or constant<br>level | Audio Stereoausgang mit regelbarem oder<br>konstantem Pegel<br>Audio stereo output with variable or constant<br>level | Audio Stereoausgang mit regelbarm oder<br>konstantem Pegel<br>Audio stereo output with variable or constant<br>level |
| **Netzteil / Mains Stage** | | | |
| Netzspannung (Regelbereich)<br>Mains voltage (variable) | 165 ... 265V AC | 165 ... 265V AC | 165 ... 265V AC |
| Netzfrequenz<br>Mains frequency | 50 / 60Hz | 50 / 60Hz | 50 / 60Hz |
| Leistungsaufnahme<br>Power consumption | ca. 155W | ca. 150W | ca. 145W |
| Semi-standby<br>Standby | ca. 5W | ca. 5W | ca. 5W |

| | ARGANTO 70<br>MW 70 - 510/8 DPL<br><br>(VNM)<br>CUC 1930 | ARGANTO 82<br>MW 82 - 510/8 DPL<br><br>(VNM)<br>CUC 1931 |
|---|---|---|
| **Bildröhre / Picture Tube** | | |
| Sichtbares Bild<br>Visible picture | 66cm | 76cm |
| Bildschirmdiagonale<br>Screen diagonal | 70cm (28") MEGATRON<br>Super Flat, Black Matrix, CCS, Invar, Philips/106° | 82cm (32") MEGATRON Super Flat, Black Matrix, CCS, Invar, Philips/106°<br>Bildrotation über OSD einstellbar / Raster rotation adjustable via OSD |
| Formatumschaltung<br>Format switching | 4:3, Cinema Zoom (432 Zeilen/lines) Panorama Zoom, Format Automatic, 16:9, automatische Umschaltung auf / automatic change to PALplus | 4:3, Cinema Zoom (432 Zeilen/lines) Panorama Zoom, Format Automatic, 16:9, automatische Umschaltung auf / automatic change to PALplus |
| **Elektronik / Electronic** | | |
| Programmspeicherplätze<br>Programme positions | 99 + 5 AV<br>(bei Nachrüstung SAT / when retrofitted with SAT)<br>199 TV/SAT + 59 Radio + 3 AV | 99 + 5 AV<br>(bei Nachrüstung SAT / when retrofitted with SAT)<br>199 TV/SAT + 59 Radio + 3 AV |
| TV Guide | ja / yes | ja / yes |
| Easy dialog | ja / yes | ja / yes |
| Tuner | PLL Frequenz Synthesizer Tuning UHF/VHF, globale Pinbelegung<br>PLL frequency synthesizer tuning UHF/VHF, global pinning | PLL Frequenz Synthesizer Tuning UHF/VHF, globale Pinbelegung<br>PLL frequency synthesizer tuning UHF/VHF, global pinning |
| TV-Normen<br>TV-Standards | PAL, SECAM, NTSC 4.43MHz,<br>über / via AV 3.58MHz, B/G, L/L', I, DK/K'/D | PAL, SECAM, NTSC 4.43MHz,<br>über / via AV 3.58MHz, B/G, L/L', I, DK/K'/D |
| Stereo Systeme<br>Stereo systems | Deutsch A2 / German A2 (B/G/D/K)<br>Nicam 5.85 (Skan, B, F, E) + 6.52MHz (GB) | Deutsch A2 / German A2 (B/G/D/K)<br>Nicam 5.85 (Skan, B, F, E) + 6.52MHz (GB) |
| Videotext<br>Teletext | Megatext Level 2.5, VPS, 512 Seiten<br>Megatext level 2.5, VPS, 512 pages | Megatext Level 2.5, VPS, 512 Seiten<br>Megatext level 2.5, VPS, 512 pages |
| Musikleistung mit DPL<br>Music power with DPL | Stereo 5-Kanal 120W / Stereo 5-channel 120W<br>40W Subwoofer + 2x20W L/R + 20W center + 20W rear | Stereo 5-Kanal 120W / stereo 5-channel 120W<br>40W Subwoofer + 2x20W L/R + 20W center + 20W rear |
| Musikleistung ohne externe LS<br>Music power without external LS | Stereo 3-Kanal 80W / Stereo 3-channel 80W<br>40W + 2x20W | Stereo 3-Kanal 80W / stereo 3-channel 80W<br>40W + 2x20W |
| **Anschlüsse Front / Connections Front** | | |
| Kopfhörer<br>Headphones | Stereo 3,5mm Klinkenbuchse, Lautstärke regelbar, individuelle Tonkanalwahl bei 2-Ton-Empfang<br>Stereo 3.5mm jack, adjustable volume, individual channel selection with dual-sound broadcasts | |
| Cinch-AV-Buchse<br>Cinch-AV socket | 1x FBAS Video / in / 1x CCVS Video / in 2x Audio / in | 1x FBAS Video / in / 1x CCVS Video / in 2x Audio / in |
| S-Video | 4-polige Buchse Y-Chroma / in<br>4-pin socket Y-chroma / in | 4-polige Buchse Y-Chroma / in<br>4-pin socket Y-chroma / in |
| **Anschlüsse Rückwand / Connections Rear Panel** | | |
| Euro AV 1 (schwarz/black) | FBAS Ein-/Ausgang, RGB Eingang, SBAS Ein-/Ausgang, Megalogic, Datalink für VCR-Fernbedienung, Decoder, 16:9 / Pin8<br>CCVS in-/output, RGB input, SCVS in-/output<br>Megalogic, datalink for VCR remote control, decoder capable, 16:9 / Pin 8 | FBAS Ein-/Ausgang, RGB Eingang, SBAS Ein-/Ausgang, Megalogic, Datalink für VCR-Fernbedienung, Decoder, 16:9 / Pin8<br>CCVS in-/output, RGB input, SCVS in-/output<br>Megalogic, datalink for VCR remote control, decoder capable, 16:9 / Pin 8 |
| Euro AV 2 (orange) | FBAS Ein-/Ausgang, RGB Eingang, SBAS Eingang, Datalink für VCR-Fernbedienung, Decoder, 16:9 / Pin8<br>CCVS in-/output, RGB input, SCVS input,<br>datalink for VCR remote control, decoder capable, 16:9 / Pin8 | FBAS Ein-/Ausgang, RGB Eingang, SBAS Eingang, Datalink für VCR-Fernbedienung, Decoder, 16:9 / Pin8<br>CCVS in-/output, RGB input, SCVS input,<br>datalink for VCR remote control, decoder capable, 16:9 / Pin8 |
| Euro AV 3 (blau/blue) | FBAS Ein-/Ausgang, SBAS Ein-/Ausgang, Datalink für VCR-Fernbedienung, 16:9 / Pin8<br>CCVS in-/output, SCVS in-/output<br>datalink for VCR remote control, 16:9 / Pin 8 | FBAS Ein-/Ausgang, SBAS Ein-/Ausgang, Datalink für VCR-Fernbedienung, 16:9 / Pin8<br>CCVS in-/output, SCVS in-/output,<br>datalink for VCR remote control, 16:9 / Pin8 |
| Standard VGA / 2 Cinch NF/in<br>Standard VGA / 2 Cinch AF/in | Bildschirmauflösung / Screen resolution 640X480, 31,5kHz/60Hz,<br>Textmode 31,5kHz/70Hz (AV 5 Position) | Bildschirmauflösung / Screen resolution 640X480, 31,5kHz/60Hz,<br>Textmode 31,5kHz/70Hz (AV 5 Position) |
| Lautsprecherbuchsen<br>Loudspeaker sockets | 6x2 click fit 4Ω für Front-Stereo-Boxen L+R<br>Center / rear, zusätzlich Subwoofer und Reserve<br>6x2 click fit 4Ω for front stereo boxes L+R,<br>center / rear, add. subwoofer and reserve | 6x2 click fit 4Ω für Front-Stereo-Boxen L+R<br>Center / rear, zusätzlich Subwoofer und Reserve<br>6x2 click fit for front stereo boxes L+R,<br>center / rear, add. subwoofer and reserve |
| Cinch-NF-Buchse Ausgang<br>Cinch-AF socket output | 2x Audio Stereoausgang mit Regelung<br>1x für drahtlosen Dolby-Kanal auf Rückseite<br>2x audio stereo output with variable level<br>1x for wireless Dolby rear channel | 2x Audio Stereoausgang mit Regelung<br>1x für drahtlosen Dolby-Kanal auf Rückseite<br>2x audio stereo output with variable level<br>1x for wireless Dolby rear channel |
| **Netzteil / Mains Stage** | | |
| Netzspannung (Regelbereich)<br>Mains voltage (variable) | 165 ... 265V AC | 165 ... 265V AC |
| Netzfrequenz<br>Mains frequency | 50 / 60Hz | 50 / 60Hz |
| Leistungsaufnahme<br>Power consumption | ca. 140W | ca. 150W |
| Standby | ca. 5W | ca. 5W |

# Modulübersicht / Module List

| | | **Atlanta SE 7250 PIP/DOLBY (VNM) CUC 1832** | **Atlanta SE 7250/8 DOLBY (VNM) CUC 1832** | **Sydney SE 7230 DOLBY (VNM) CUC 1832** | **ARGANTO 70 MW 70 - 510/8 DPL (VNM) CUC 1930** | **ARGANTO 82 MW 82 - 510/8 DPL (VNM) CUC 1931** |
|---|---|---|---|---|---|---|
| Bestell-Nr. Order No. | | G.CI 2575 | G.CI 7375 | G.CI 2475 | G.CH 5975 | G.CH 5852 G.CH 5875 |
| Chassis-Nr. Chassis No. | | 29704 007 0700 | 29704 007 0800 | 29704 007 0900 | 29704 007 0200 | 29704 007 0100 |
| Tuner | 29504 301 0100 | ● | ● | ● | ● | ● |
| Tuner | 81406 016 1900 | ● | — | — | — | — |
| Signal Baustein Signal Module | 29504 202 0100 | ● | — | ● | — | — |
| | 29504 212 0200 | ● | nachrüstbar retrofitable | nachrüstbar retrofitable | nachrüstbar retrofitable | nachrüstbar retrofitable |
| | 29504 262 0100 | — | ● | — | ● | ● |
| Feature Box | 29504 209 0100 | — | — | — | — | ● |
| | 29504 209 0200 | ● | ● | ● | ● | — |
| LFR-Platte LFR Board | 29305 014 4100 | — | — | — | — | ● |
| Bedieneinheit Control Unit | 29501 082 8800 | ● | ● | ● | — | — |
| Prozessorplatte Processor Panel | 29504 203 0100 | — | — | — | — | ● |
| | 29504 203 0200 | — | — | — | ● | — |
| | 29504 203 0400 | ● | ● | ● | — | — |
| EPG-Platte EPG Board | 29305 129 0300 | — | — | — | ● | ● |
| Bildrohrplatte CRT Panel | 29305 122 2400 | — | — | — | — | ● |
| | 29305 122 2600 | — | — | — | ● | — |
| | 29305 122 3000 | ● | ● | ● | — | — |
| Netzteil Standby Mains Chassis Standby | 29304 050 8200 | ● | ● | ● | ● | ● |
| Netzschalterplatte Mains Switch Board | 29305 165 8100 | — | — | — | ● | ● |
| | 29305 165 8400 | ● | ● | ● | — | — |
| Keyboard | 29501 083 8000 | — | — | — | ● | ● |
| NF-Baustein AF Module | 29504 204 0100 | ● | — | ● | — | — |
| | 29504 204 0300 | — | — | — | ● | ● |
| | 29504 204 0400 | — | ● | — | — | — |
| | 29504 204 0500 | ww / or | ww / or | ww / or | — | — |
| Dyn. Fokus Dyn. Focus | 29305 025 3700 | — | — | — | — | ● |
| | 29305 025 4200 | ● | ● | ● | — | — |
| Rotationsplatte Rotation Board | 29305 129 0200 | — | — | — | — | ● |
| Buchsenpl. Click Fit Click Fit Socket Board | 29305 160 6000 | — | — | — | ● | ● |
| EURO-AV3 Platte EURO-AV3 Socket PCB | 29305 160 3700 | — | — | — | ● | ● |
| TP 850 C | 29642 061 0901 | — | — | — | ● | ● |
| TP 910 C | 29642 061 1201 | ● | ● | ● | — | — |
| VGA-Baustein VGA Module | auf Prozessorpl. on Processor PCB | — | — | — | ● | ● |
| PIP Baustein PIP Module | 29504 206 0100 | ● | nachrüstbar retrofitable | nachrüstbar retrofitable | nachrüstbar retrofitable | nachrüstbar retrofitable |
| SAT-Baustein SER 300 SAT Module SER 300 | 29504 222 0100 | nachrüstbar retrofitable | nachrüstbar retrofitable | nachrüstbar retrofitable | nachrüstbar retrofitable | nachrüstbar retrofitable |

## Sicherheits-Hinweise

Die in den Fernsehgeräten auftretende Röntgenstrahlung entspricht den Bestimmungen der Physikalisch-Technischen Bundesanstalt vom 8. Januar 1987.
Die Hochspannung für die Bildröhre und die damit auftretende Röntgenstrahlung ist abhängig von der exakten Einstellung der Netzteilspannung +A.
Nach jeder Reparatur im Netzteil oder in der Horizontalablenkung ist die Hochspannung zu messen und ggf. einzustellen.
Schutzschaltungen im Gerät dürfen nur kurzzeitig außer Betrieb gesetzt werden, um Folgeschäden am Chassis oder an der Bildröhre zu vermeiden.
Beim Austausch der Bildröhre dürfen nur die in den Ersatzteillisten vorgeschriebenen Typen verwendet werden.

## Safety Advices

The X-radiation developing in the sets conforms to the X-radiation Regulations (January 8, 1987), issued by the Physikalisch-Technische Bundesanstalt (federal physiotechnical institution).
The high tension for the picture tube and thus the developing X-radiation depends on the precise adjustment of the +A power supply.
After every repair of the power supply unit or the horizontal deflection stage it is imperative that the EHT for the picture tube is checked and re-adjusted if necessary.
To avoid consequential damages to the chassis or the picture tube the integrated protective circuits are allowed to be put out of operation only for a short time.
When replacing the picture tube use only the types specified in the spare parts lists.

(D)

## Servicehinweise

**Chassisausbau**
Bevor Sie die Chassis-Verbindungsleitungen lösen, muß die Leitungsverlegung zu den einzelnen Baugruppen wie Netzschalterplatte, Bedieneinheit, Bildrohrplatte, Ablenkeinheit oder Lautsprecher beachtet werden.
Nach erfolgter Reparatur ist es notwendig, die Leitungsführung wieder in den werksseitigen Zustand zu versetzen, um evtl. spätere Ausfälle oder Störungen zu vermeiden.

**Netzkabel**
Diese Geräte dürfen nur mit dem Original-Netzanschlußkabel mit integrierter Entstördrossel betrieben werden. Dieses Netzkabel verhindert Störungen aus dem Netz und ist Bestandteil der Gerätezulassung. Im Ersatzfall bestellen Sie bitte ausschließlich das Netzkabel laut Ersatzteilliste.

(GB)

## Service Notes

**Disassembly of the chassis**
Before disconnecting the chassis connecting leads observe the way they are routed to the individual assemblies like the mains switch panel, keyboard control panel, picture tube panel, deflection unit or loudspeaker.
On completion of the repairs the leads must be laid out as originally fitted at the factory to avoid later failures or disturbances.

**Mains cable**
The TV receiver must only be operated with an original mains connecting cable with an interference suppressor choke integrated in the mains plug. I his mains cable prevents interference from the mains supply and is part of the product approval. For replacement please order exclusively the mains connecting cable specified in the spare parts list.

(F)

## Information pour la maintenance

**Dèmontage de chassis**
Avant de défaire les connecteurs du châssis princip, il y a lieu de repérer auparavant les liaisons correspondant à chaque platine comme par exemple le C.I. Inter secteur, le C.I. Commande, le C.I. Tube, le bloc déviation ou les haut-parleurs.
A la fin de l'intervention, les connexions doivent être remises dans leur position d'origine afin d'éviter par après d'éventuelles défaillances ou perturbations.

**Cable dereseau**
Ces appareils ne peuvent être utilisés qu ' avec un cable de connecion original de réseau avec bobine antiparasite intégré dans la fiche de secteur. Ce câble de réseau empêche des perturbations de réseau et est partie de l'autorisation d'appareil. Si nécessaire commandez uniquement le cable de réseau selon la liste de pièces détachées.

(I)

## Nota di servizio

**Smontaggio del telaio**
Prima di sfilare i cavi di collegamneto col telaio è necessario osservare la disposizione originaria degli stessi verso le singole parti come la piastra alimentazione, l'unità comandi, la piastra cinescopio, il giogo o l'altoparlante.
Dopo la riparazione è necessario che gli ancoraggi e le guide garantiscano la disposizione dei cavi analogamente a quella data in fabrica e ciò per evitare disturbi o danni nel tempo.

**Cavo rete**
Gli apperechi devono essere messi in funzioni solo con il cavo originale il colle gamento di rete e la sua spina di rete deve essere munita di una bombina d´induttanza. In causa di sostituzione ordinate solo il cavo di alimentatore che corrésponde alla lista degli accessori.

(E)

## Nota de servicio

**Desmontaje del chassis**
Antes de desconectar las conecciones del Chassis hay que observar la dirección de dichas conecciones a los distintos grupos de construcción como la placa de conmutación de red, unidad de control, placa del zócalo del tubo de imagen, unidad de deflección o altavoces.
Después de haber realizado la reparación y para evitar fallos o pertubaciones posteriores es necesario reponer las conecciones tal como fueron instaladas originalmente en fabrica.

**Cable de red**
El aparato solo se puede usar con el cable de red original con choque antiparásito integrado en el enchufe de red. Este cable de red evita perturbaciones de la red y es parte de la autorización del aparato. En caso necesario puede pedir el cable de red según lista de piezas de repuestos.

# (D) Schaltplansymbole (GB) Circuit Diagram Symbols (F) Symboles schéma

# (I) Simboli sullo schema (E) Simbolos en los esquemas

Feinabst. + / Fine tuning + / Réglage fine + / Sint. fine + / Sint. fina +

Feinabst. - / Fine tuning - / Réglage fine - / Sint. fine - / Sint. fina -

Lautstärke / Volume / Volume / Volume sonore / Volumen

Referenz Lautstärke / Volume ref. volt. / Tens. de réf. vol. sonore / Tens di rif. volume / Tens. ref. volumen

Balance / Balance / Balance / Balanciam. / Balance

Suchlauf / Self seek / Recherche autom. / Sint. autom. / Sintonia automatica

Farbton / Tint / Teinte / Tinta / Tinte

Helligkeit / Brightness / Luminosité / Luminosita / Brillo

Kontrast / Contrast / Contraste / Contrasto / Contraste

Farbkontrast / Colour contrast / Contraste des coleurs / Contrasto colore / Contraste de color

Schutzschaltung / Protection circuit / Circuit de sécurité / Circuito di protezione / Circuito de protección

A-AM
Audio AM

ABK
(Burst Key): Burstaustastimpuls / Burst blanking pulse / Impulsion de suppress. de burst / Imp. di soppress. del burst / Imp. supresion burst

AUDIO
Ton-Signal / Audio signal / Signal audio / Segnale audio / Señal audio

AUDIO-L
Ton-Signal links / Audio signal left / Signal audio gauche / Segnale audio sinistra / Señal audio izquierda

AUDIO-R
Ton-Signal rechts / Audio signal right / Signal audio droit / Segnale audio destra / Señal audio derecha

AUDIO MAC
Tonsignal D2 Mac / Audio signal D2MAC / Signal audio D2MAC / Segnale audio D2MAC / Señal de sonido D2MAC /

AUDIO L-MAC
Tonsignal links D2 Mac / Audio signal left D2MAC / Signal audio gauche D2MAC / Segnale audio sinistro D2MAC / Señal de sonido izquirdo D2MAC

AUDIO R-MAC
Tonsignal rechts D2 MAC / Audio signal right D2MAC / Signal audio droit D2MAC / Segnale audio destro D2MAC / Señal de sonido derecho D2MAC /

AUDIO SUB
Audio Tieftöner / Audio sub woofer / Audio haut-parleur pour les frequences basses / Audio toni bassi / Audio sonido bajo

AUDIO TV
Audio-Signal FS Gerät / Audio signal TV set / Signal audio téléviseur / Segnale audio TV / Señal audio TV

AUDIO VCR
Tonsignal VCR Gerät / Audio signal VCR unit / Signal audio magnetoscope / Segnale audio VCR / Señal audio VCR

A-ZF 1
Audio ZF 1 / Audio IF 1 / Audio FI 1 / Audio FI 1 / Audio FI 1

A-ZF 2
Audio ZF 2 / Audio IF 2 / Audio FI 2 / Audio FI 2 / Audio FI 2

B EXT
Blau-Signal / Blue signal / Signal bleu / Segnale blu / Señal azul

BB
Basisband / Baseband / Bande de base / Banda base / Banda base

B EXT
Blau-Signal extern / Signal blue external /Signal bleu externe / Segnale blu esterno / Señal azul externa

B OSD
OSD-Einblendung blau / OSD blue / Eblouissement OSD bleu / Visualizzazione OSD blu / Visualisacione OSD azul

B PIP
Blau-Signal PIP / PIP Blue signal / Signal bleu PIP / Segnale blu PIP / Señal azul PIP

B/50
Blau - Signal - 50Hz vert.,15625Hz hor. / Blue signal - 50Hz vert., 15625Hz hor. / Signal bleu - 50Hz vert., 15625Hz hor. / Segnale bleu - 50Hz vert., 15625Hz hor. / Señal azul - 50Hz vert., 15625Hz hor.

B/100
Blau-Signal -100Hz vert., 31250Hz hor. / Blue signal -100Hz vert., 31250Hz hor. / Signal bleu -100Hz vert., 31250Hz hor. / Segnale blu -100Hz vert., 31250Hz hor. / Señal azul -100Hz vert., 31250Hz hor.

B-Y/50
B-Y -Signal - 50Hz vert., 15625Hz hor. / B-Y -Signal - 50Hz vert., 15625Hz hor. / Signal B-Y - 50Hz vert., 15625Hz hor. / Segnale B-Y - 50Hz vert., 15625Hz hor. / Señal B-Y - 50Hz vert., 15625Hz hor.

B-Y/100
B-Y -Signal - 100Hz vert., 31250Hz hor. / B-Y -Signal - 100Hz vert., 31250Hz hor. / Signal B-Y - 100Hz vert., 31250Hz hor. / Segnale B-Y - 100Hz vert., 31250Hz hor. / Señal B-Y - 100Hz vert., 31250Hz hor.

C
Kanalwahl / Channel selection / Sélection de canaux / Selez. canale / Seleccion canal

CENTER
Mittelpunkt-Lautsprecher / Center loudspeaker / Haut-parleur de centre / Alto parlante punto centrale / Altavoz del centro

CHIP ADR
Chip Adresse / Chip adress / Chip direction / Indiri. del chip / Direccion chip

CINCH AUDIO L
Ton-Signal Cinch links / Audio signal cinch left / Signal audio cinch gauche / Segnale audio cinch sinistra / Señal audio cinch izquierda

CINCH AUDIO R
Ton-Signal Cinch rechts / Audio signal cinch right / Signal audio cinch droit / Segnale audio cinch destra / Señal audio cinch derecha

CHROMA
Chroma Signal / Chroma signal / Signal dégree / Croma segnale / Señal croma

CHROMA S-VHS
Chroma S-VHS-Signal / Chroma S-VHS-Signal / Signal dégree de S-VHS / Croma segnale S-VHS / Señal croma S-VHS

CLK
Clock

CL 1

CL 2

CSY
Composite Sync. Imp. für VT / Composite sync pulse for TT / Imp. de sync. vidéo-composite pour TXT / Imp. hor. para Video Comp.

CS/100
Kombiniertes Hor./vert. Sync. Signal 31250Hz/100Hz (Composite Sync.) / Combined hor./vert. sync signal 31250Hz/100Hz (Compo site Sync) / Signal synchr. hor./vert. combiné 31250Hz/100Hz (Synchr. composité) / Segnale sincr. orizz./vert. 31250Hz/100Hz (Sincr. Composito) / Señal combinada sincr. hor./vert. 31250/100Hz (Sincr. compuesto)

DATA
Daten / Data / Données / Dati / Datos

DL
Verzögerungsleitung / Delay line / Ligne à retard / Linea di ritardo / Linea de retardo

ENA
Freigabe / Enable / Autorisation / Consenso / Habilitacion

ENA ZF
Freigabe ZF / IF Enable / Validation FI / Consenso FI / Autorizacón FI

ENABLE FT
Freigabe FT / Finetuning enable / Autorisation Réglage fin / Abilitaz. Sintonia fine / Habilitacion Sintoinia fina

ENABLE LED
Freigabe LED / LED enable / Autorisation LED / Abilitaz. LED / Habilitacion LED

ENABLE TON
Freigabe Ton / Sound enable / Autorisation son / Abilitaz. audio / Habilitacion sonido

EURO-AV AUDIO-L
Audio-Signal EURO-AV links / Audio signal EURO-AV left / Signal audio EURO-AV gauche / Segnale audio EURO-AV sinistra / Señal audio izquierda EURO-AV

EURO-AV AUDIO-R
Audio-Signal EURO-AV rechts / Signal audio EURO-AV right / Signal audio EURO-AV droit / Segnale audio EURO-AV destra / Señal audio derecha EURO-AV

EURO-AV VIDEO
Video-Signal EURO-AV / Video signal EURO-AV / Signal video EURO-AV / Segnale video EURO-AV / Señal video EURO-AV

F
Farb-Signal / Chroma signal / Signal chroma / Segnale chroma / Señal croma

FBAS — FBAS-Signal / CCVS signal / Signal vidéo composite / Segnale video composito / señal video compuesta

FBAS CINCH — FBAS-Signal-Cinch Buchse / CCVS signal-cinch socket / FBAS-prise à cinch / FBAS-presa cinch / FBAS-cinch

FBAS MAC — FBAS-D2 MAC / D2MAC CCVS signal / Signal vidéo composite-D2MAC / FBAS-D2MAC / FBAS-D2MAC

FBAS TON — Basisband / Baseband / Bande de base / Banda base / Banda base

FBAS TXT / FBAS TEXT — FBAS-Videotext / CCVS videotext / Signal vidéo composite-Télétexte / FBAS-Televideo / FBAS-Teletexto

FBAS SYNC. — FBAS Sync. Signal / CCVS sync signal / Signal sync. vidéo col. comp. / Segnal sincr. video col. comp. / Señal sincr. video compuesta

FBAS S-VHS — FBAS Signal S-VHS / CCVS signal S-VHS / Signal vidéo col. comp. S-VHS / Segnal video col. comp. S-VHS / Señal video compuesta S-VHS

F H — Hochspg. / EHT voltage / Haute tens. / Alta tens. / MAT

FRM — Rahmensignal / Frame signal / Signal d'encadrement / Segnale cornice / Señal de marco

FT — Feinabstimmung / Fine tuning / Reglage fin / Sint. fine / Sint. fina

F U — FU-Signal / FU-signal / Signal FU / Segnale FU / Senal FU

F V — FV-Signal / FV-signal / Signal FV / Segnale FV / Senal FV

G — Grün-Signal / Green signal / Signal green external / Signal vert / Segnale verde / Señal verde

G OSD — OSD-Einblendung grün / OSD green / Eblouissement OSD vert / Visualizzazione OSD verde / Visualisacione OSD verde

G PIP — Grün-Signal PIP / Green signal PIP / Signal green PIP/ Signal vert PIP / Segnale verde PIP / Señal verde PIP

G EXT — Grün-Signal extern / Green signal vertical / Signal vert externe / Segnale verde esterno / Señal verde externa

G/50 — Grün-Signal - 50Hz vert.,15625Hz hor. / Green signal - 50Hz vert., 15625Hz hor. / Signal vert - 50Hz vert., 15625Hz hor. / Segnale verde - 50Hz vert., 15625Hz hor. / Señal verde -50Hz vert., 15625Hz hor.

G/100 — Grün-Signal -100Hz vert., 31250Hz hor. / Green signal -100Hz vert., 31250Hz hor. / Signal vert -100Hz vert., 31250Hz hor. / Segnale verde -100Hz vert., 31250Hz hor. / Señal verde -100Hz vert., 31250Hz hor.

GND - H — Nullpunkt Heizung / Ground filament / Point neutre-Chauffage / Punto zero-Filamento / Punto medio filamento

HA — Horiz. Sync. Impuls / Horiz. Sync pulse / Impulsion synchro. horiz. / Impulso sincro orizzontale / Impulso de sinc. horiz.

HDR — Horiz. Ansteuerimpuls / Horiz. drive pulse / Impulsion de commande horiz. / Impulso comando orizzontale / Impulso de control horiz.

HC — Horiz. Klemmimpuls / Horiz. clamp pulse / Impulsion de serrage horiz. / Impulso comando orizzontale / Impulso de garras horiz.

H SYNC — Horizontaler Sync-Impuls / Horizontal Sync impuls / Sync impuls horizontale / Sinc impulso orrizontale / Impulso sync horizontal

HFB — Horiz. Rückschlagimpuls / Horiz. flyback / Impulsion de retour horiz. / Impulso rotorno orizzontale / Impulso de retroceso horiz.

HS — Hor. Sync. Implus für VT / Hor. sync pulse for TT / Imp. de sync. hor. pour TXT / Imp. sincr. orizz. per Televideo / Imp. hor. para Video Comp.

I2S CL / I2S TER / I2S IN / I2S WS — Digitale Datensignale / Digtital data signals / Signal donneé digital / Segnali dati digitali / Señal datos digital

I BEAM — Strahlstrom / Current beam / Current rayon / Corrante del irradire / Corriente de haz

ICL — I²C Bus -Clock

IR — Infrarot-Signal / Signal infrared / Signal infra-rouge / Segnale infrarosso / Señal infrarojo.

IM CLOCK — I²C Bus -Clock

IM IDENT — I²C Bus -Kennung / I²C-Bus Identification / Identification I²C-Bus / Ident. I²C-Bus, Identification I²C-Bus

IM RESET — I²C Bus -Reset

IR CLK — Infrarot Clock / Infrared clock / Signal I.R. horloge / Clock segnale R.I. / Clock infrarojos

IR DATA — Infrarot Signal / Infrared signal / Signal I.R. / Segnale infrarosso / Data infrarrojos

IR VIDEO — Infrarot Signal Video / Infrared signal video / Signal I.R. video / Segnale infrarosso video / Data infrarrojos video

KB — Keyboard

KH AUDIO-L — Tonsignal Kopfhörer links / Audio signal headphone left / Signal audio gauche de casque / Segnale audio sinistra cuffia / Señal audio izquierda auriculares

KH AUDIO-R — Tonsignal Kopfhörer rechts / Audio signal headphone right / Signal audio droit de casque / Segnale audio sinistra cuffia / Señal audio derecha auriculares

L — Lautstärke / Volume / Volume / Volume sonore / Volumen

LED — Leuchtdiode / Light emitting diode / Diode lumineuse / Diodo luminoso / Diodo luminescente

M — Speicher Taste / Memory button / Touche mémoire / Tasto di memoria / Puls. memoria

MEGA LOGIC — Megalogic Daten / Megalogic data / Megalogic dates / Dati Megalogic / Megalogic datas

MODE — Modus / Mode / Mode / Modo / Modo

NIC CLK — NICAM Clock / Clock NICAM / Horloge NICAM / Clock NICAM / Clock NICAM

NORM — Norm Taste / TV standard select button / touche de norme / Tasto norma / Puls. de norma

OWA — Ost-West Ansteuerimpuls / East-west drive impuls / Impulsion de commande Est-Ouest / Impulso comando Est-Ovest / Impulso de control Este-Oeste

P — Programm / Program / Programme / Programma /Programa

P/C — Programm-Kanalwahl / Program channel selection / Progr. sélection de canaux / Progr. selez.canale / Progr. selec. canal

PIP — Bild im Bild / Picture in picture / Image dans l'image / PIP / Imagen en la imagen

P1 — Progr. Taste / Progr. button / Touche Progr. / Tasto Progr. / Puls. Progr.

R — Rot-Signal / Red signal / Signal rouge / Segnale rosso / Señal rojo

REMOTE — Fernbedienung / Remote control / Telecommande / Telecomando / Mando a distancia

R OSD — OSD-Einblendung rot / OSD red / Eblouissement OSD rouge / Visualizzazione OSD rosso / Visualisacione OSD rojo

R PIP — Rot-Signal PIP / Red signal PIP / Signal rouge PIP / Segnale rosso PIP / Señal rojo PIP

R EXT — Rot-Signal extern / Signal red external / Signal rouge externe / Segnale rosso esterno / Señal rojo externa

R-Y/50 — R-Y -Signal - 50Hz vert., 15625Hz hor. / R-Y -Signal - 50Hz vert., 15625Hz hor. / Signal R-Y - 50Hz vert., 15625Hz hor. / Segnale R-Y - 50Hz vert., 15625Hz hor. / Señal R-Y - 50Hz vert., 15625Hz hor.

R-Y/100 — R-Y -Signal - 100Hz vert., 31250Hz hor. / R-Y -Signal - 100Hz vert., 31250Hz hor. / Signal R-Y - 100Hz vert., 31250Hz hor. / Segnale R-Y - 100Hz vert., 31250Hz hor. / Señal R-Y - 100Hz vert., 31250Hz hor.

S — Sonderkanal / Special channel / Canal special / Canale speciale / Canal especial

| | |
|---|---|
| SB | Strahlstrombegrenzung / Beam current lim. / Lim. cour. de faisceau / Lim. corr. di raggio / Corriente media de haz |
| SCL | I²C-Bus Clock |
| SCL 100 | Schneller I²C-Bus Clock / I²C-Bus clock high speed / I²C-Bus grande vitesse / I²C-Bus veloce / Clock del I²C-Bus de alta velocida |
| SDA | I²C-Bus Daten / I²C-Bus data / I²C-Bus données / I²C-Bus dati / I²C-Bus datos |
| SHIFT VIDEO | Dynamische vert. Versch. 25Hz, aktiv bei Video u. Mix Betrieb / Dynam. vert. shift 25Hz, active on video and mix operation / Decal dynam. de l'image 25Hz, actif sur video et fonction. mixte / Spostam. vert. dinam. 25Hz, attivo con video e. funzionam. misto / Desplaz. dinamico vert. 25Hz, activo con video Y funciones mixtas |
| SHIFT TEXT | Dynamische vert. Versch. 25Hz, aktiv bei Standbild u. VT / Dyn. vert. shift 25Hz, active on freeze-frame and Teletext / Decal dynam. de l'image 25Hz, actif sur arret immage et Vidéotext (Antiope) / Spostam. vert. dinam. 25Hz, attivo con fermo immag. e Televideo / Desplaz. dinamico vert. 25Hz, activo con imagen parada Y Videotexto |
| SS | Schutzschaltung / Protection circuit / Cablage protecteur / Pot. de prot. / Circuito de proteccion |
| SSB | Spitzenstrahlstrombegrenzung / Peak beam current limiting / Lim. de faisceau crete / Lim. corr. catod. di pico / Corrente pico de haz |
| SSC | Supersandcastle |
| SSC PIP | Supersandcastle PIP |
| SSC/100 | Supersandcastle 100Hz vert., 31250Hz hor. |
| SSC/50 | Supersandcastle 50Hz vert., 15625Hz hor. |
| SUR-ROUND | Surround |
| SYNC | Sync.-Signal / Sync.-Signal / Signal sync / Segnale sync. / Señal de sync. |
| SYNC. BTX | Sync. BTX / Viewdata Sync / Sync. Télétext / Sincr. Videotel / Sincr. Videotexto |
| SYNC. VT | Sync. VT / Sync. Teletext / Sync Vidéotexte / Sincr. Televideo / Sincr. Videotexto |
| SW | Schwarzwert / Black level / Niveau du noir / Livello del nero / Nivel de negro |
| TE | TEXT-Freigabe / TEXT enable / Autorisation TEXTE / Abilitaz. TELEVIDEO / Habilatation TEXTE |
| T1 | Bei Zweiton, Ton 1 / On two channel sound, sound 1 / Pour double son, son 1 / In bicanale, audio 1 / En dual, sonido 1 |
| T2 | Bei Zweiton, Ton 2 / On two channel sound, sound 2 / Pour double son, son 2 / In bicanale, audio 2 / En dual, sonido 2 |
| TT | Tieftöner / Woofer / Haut-parleur pour les frequences basses / Toni bassi / Sonido bajo |
| $U_{FOC}$ | Fokusspg. / Focussing volt. / Tens. de focalis. / Tens di focalizz. / Tens focalizacion |
| $U_{G1}$ | Spg. Gitter G 1 / Volt. grid G1 / Tens grille G 1 / Tens. griglia G1 / Tens. rejillas G 1 |
| $U_{H}$ | Hochspannung / High voltage / Haute tension / EAT / Alte tension |
| $U_{G2}$ | Schirmgitter Spg. / Screen-grid volt. / Tens. de grille - écran / Tens.di griglia schermo / Tens. de rejilla |
| VA | Vertikaler Ansteuerimpuls / Vert. drive pulse / Impulsion de commande verticale / Impulso di comando verticale / Impulso de control vertical |
| VB | |
| VCL | VCR - Clock |
| VDR | Freigabe Anzeigebaustein / Display enable / Autorisation pour module indicateur / Modulo indicazione / Habilitacion modulo indicacion |
| VG | Vert. Gegenkopplung / Vert. feedback / Contre-reaction verticale / Controreazione vert. / Aliment. neg. vert. |
| VIDEO | Video Signal / Video signal / Signal vidéo / Segnale video / Señal video |
| VT DATA | Videotext Daten / Teletext data / Données Teletexte / Linea dati Televideo / Data Teletexto |
| VT SCL | Videotext Clock / Teletext clock / Signal horloge Vidéotext / Clock Televideo / Clock Teletexto |
| VT SDA | I²C Bus: VT Daten / Teletext data / Données Vidéotext / Dati Televideo / Data Teletexto |
| V SYNC | Vertikaler Sync-Impuls / Vertical Sync impuls / Sync impuls vertical / Sinc impulso vertical / Impulso sync vertical |
| Y | Y-Signal / Y Signal / Signal Y / Segnale Y / Señal Y |
| Y/50 | Y-Signal - 50Hz vert., 15625Hz hor. / Y-Signal - 50Hz vert., 15625Hz hor. / Signal Y - 50Hz vert., 15625Hz hor. / Segnale Y - 50Hz vert., 15625Hz hor. / Señal Y - 50Hz vert., 15625Hz hor. |
| Y/100 | Y - Signal - 100Hz vert., 31250Hz hor. / Y -Signal - 100Hz vert., 31250Hz hor. / Signal Y - 100Hz vert., 31250Hz hor. / Segnale Y - 100Hz vert., 31250Hz hor. / Señal Y - 100Hz vert., 31250Hz hor |
| ZF | Zwischenfrequenz / IF / FI / FI / FI |
| U AFC | Schaltspg. AFC / AFC switching volt. / Tens. de commut. AFC / Tens. di commut. AFC / Tens. conmut. CAF |
| U AV | Schaltspg. AV / Switching volt. AV / Tens. de commut. AV / Tens. di commut. AV / Tens. conmut. AV |
| U B1 | Schaltspg. Band 1 / Switching volt. band 1 / Tens. de commut. bande 1 / Tens. di commut. banda 1 / Tens. conmut. de banda 1 |
| U B2 | Schaltspg. Band 3/ / Switching volt. band 3 / Tens. de commut. bande 3 / Tens. di commut. banda 3 / Tens. conmut. de banda 3 |
| U BA | Schaltspg. Bildamplitude / Switching voltage vertical amplitude / Tension de coupure amplitude dImage / Tensione di commutaz. ampiezza d'imagine / Tension de conm. amplitude de imagen di commut. PAL / Tens. conmut. PAL |
| U BTX | Schaltspg. BTX / Switching volt. BTX (Viewdata) / Tens. commut. Télétext / Tens. commut. VIDEOTEL / Tens. conmut. Teletexto |
| U C-AV | Schaltspg. Camera Wiederg. über Camera AV Eingang / Switching volt. cam. playback via Camera-AV input / Tens de commut pour lec. de camera par l'entree Camera-AV / Tens.de commut. in riproduz. camera tramite ingresso Camera-AV / Tens. de serv. reprod. camera a traves de la entrada Camera-AV |
| U DATA | Schaltspg. Datenbetr. / Switching volt. data mode / Tens. de commut. fonct. données / Tens. di commut. dati / Tens conmut. datos |
| U DATA EXT | Schaltspg. U Data extern / Switching volt Data ext. / Tension de commutation U Data externe / Tens. di commutazione U-Data esterno / Tensión de conmutatón externa U |
| U DATA OSD | Schaltspg. für Bildschirm-Einblendung / Switching volt. for On Screen Display / Tens. commut. pour eblouissement On Screen Display / Tens. commut. per di visualizzazione On Screen Display / Tens. conmut. para On Screen Display |
| U DEEM | Schaltspg. Deemphasis / Switching volt. deemphasis / Tens. commut. desaccent. / Tens. commut. deenfasi / Tens. conmut. deenfasis |
| U DS | Schaltspg. Dolby-Surround / Switching volt. Dolby-Surround / Tens. commut. Dolby-Surround / Tens. commut. di Dolby-Surround / Tens. de conmut. Dolby-Surround |
| U EURO-AV | Schaltspg. EURO-AV / Switching volt. EURO-AV / Tens. de commut. EURO-AV / Tens. di commut. EURO-AV / Tens. conmut. EURO-AV |
| U EU-AV CINCH | Schaltspg. EURO-AV-Cinch-Buchse / Switching volt. EURO-AV-Cinch socket / Tens. commut. prisa Scart - Cinch / Tens. commut. presa Scart -Cinch / Tens. conm. EURO-AV - Cinch |
| U FBAS | Schaltspannung für Video-Ausgang EURO-AV Buchse / Switch. voltage for video output EURO-AV socket / Tension de commut. pour sortie vidéo EURO-AV / Tension commut. per presa d'uscita video EURO-AV / Tension de conmut. para salida EURO-AV |
| U HIFI | Schaltspg. HIFI / Switching voltage HIFI / Tens. de commut. HIFI / Tens di commut. HIFI / Tens. conmut. HIFI |
| U HIFI MUTE | Stummschaltung HiFi / Muting volt. HiFi / Commutation de silence HiFi / Silenzametno HiFi / Muting HiFi |
| U HUB | Schaltspg. HUB / Switching volt. deviation / Tens. commut. déviation / Tens. commut. deviazione / Tens. conmut. deviacion |

Schaltspg. Signalkennung AV 3 / Switching volt. signal identification AV 3 / Tens de commut.identification de signal AV3 / Tens. commut. identificazione segnale / Tens. conmut. identifi. segñal AV3

Stummschaltung Kopfhörer / Muting volt. headphone / Commutation de silence casque / Silenzamento cuffia / Muting auriculares

Gleichspannung für SAT-Basissignal / DC for SAT basic signal / Tens. continue pour SAT base signal / Tens continua per segnale SAT base / Tens. continua para señal SAT base

Schaltspg. Koinz. / Switching volt. coinc. / Tens de commut. coinc. / Tens di commut. coinc. / Tens. conmut. coinc.

Schaltspg. Koinz. mit Videoquelle verknüpft / Coinc. switching volt. linked with video source / Signal de coincid. combiné avec source video / Tens. di commut. a coinc. combinata con sorg video segñal de coincidencia combinada con video

Schaltspg. LED / Switching volt. LED / Tens de commut. LED / Tens. commut. LED / Conmut. LED

Schaltspg. Leuchtpunktunterdrückung / Switching volt. beam spot suppression / Tens. de commut. suppress. du spot lumineux / Tens. soppr. punto luminoso / Tens. de conmut. filtro supresor del punto luz

Schaltspg. LNC "Aus" / Switching volt. LNC "OFF" / Tens. de commut. LNC "OFF" / Tensione di commut. "Spento" LNC / Tension LNC "OFF"

Schaltspg. D2MAC / Switching volt. D2MAC / Tension de commutation D2MAC / Tens. di commutazione D2MAC / Tensión de conmutación D2MAC

Stummschaltung / Muting / Silencieux / Silenziamento /Muting

Schaltspg. NF 1 / Switching volt. AF 1 / Tension commut. BF 1 / Tens. commut BF 1 / Tens. conm. BF 1

Schaltspg. NF 2 / Switching volt. AF 2 / Tension commut. BF 2 / Tens. commut BF 2 / Tens. conm. BF 2

Schaltspg. NICAM / Switching volt. NICAM / Tens. de commut. NICAM / Tens. commut. NICAM / Tens. de conmut. NICAM

Schaltspg. Norm / Switching volt. Norm / Tens. de commut. standard / Tens. di commut. Norma / Tens. conmut. Norma

Schaltspg. PAL / Switching volt. PAL / Tens. de commut. PAL / Tens. di commut. PAL / Tens conmut. PAL

Schaltspg. Polarität / Switching volt. polarity / Tension commut. polarite / Tens. commut. polarita / Tens. conmut polarizacion

Schaltspg. Ökoschalter / Switching volt. eco switch / Tens. de commut. interr. eco. / Tens. commut. interr. ecologico / Tens. conmut. interr. ecol.

Schaltspg. Panorama View / Switching volt. Panorama View / Tens. de commut. Panorama View / Tens. commut. Panorama View / Tens. conmut. Panorama View

Schaltspg. Reset / Switching volt. Reset / Tens. commut. Reset / Tens. commut. Reset / Tens. conmut. Reset

Schaltspg. RGB1 - RGB2 / Switching volt. RGB1 - RGB2 / Tens. de commut. RGB1 - RGB2 / Tens. di commut. RGB1 - RGB2 / Tens. conmut. RGB1 - RGB2

Schaltspg.-Schutzfunktion / Switching volt.-protective func. / Tens de commut.-sécurité / Tens. di commut.-funz di protez. / Tens. conmut.-proteccion

Schaltspg. SECAM / Switching volt. SECAM / Tens. de commut. SECAM / Tens. di commut. SECAM / Tens. conm. SECAM

Schaltspg. Standby / Switching volt. Standby / Tens. commut. Veille / Tens. commut. Standby / Tens. conmut. Standby

Schaltspg. S-VHS / Switching volt. S-VHS / Tens.de commut. S-VHS / Tens. de commut. S-VHS / Tens. de conmut. S-VHS

Schaltspg. Ton 1-2 / Switching volt. sound 1-2 / Tens. commut. audio 1-2 / Tens. commut. son 1-2 / Tens. conmut. son 1-2

Schaltspg. UHF / UHF switching volt. / Tens. de commut. UHF / Tens di commut. UHF / Tens. conmut. UHF

Schaltspg. VHF / VHF switching volt. / Tens. de commut. VHF / Tens di commut. VHF / Tens. conmut. VHF

Schaltspg. Videoquelle / Switching volt. video source / Tens. de commut. source video / Tens. di commut. sorg. video / Tens conmut. video

Schaltspg. Wischerkontakt / Schwitching voltage temp. contact / Tens. de commut. contact fugitif / Tens. commut. contatto temporaneo / Contacto supresor tens. de conmut.

Schaltspg. ZF breit - schmal / IF switching volt. wide - narrow / Tens. commut. FI large etroit / Tens. commut. FI larga stretta / Tens. FI ancho - estrecho

Schaltspg. Bandwahl / Band sel. switching volt. / Tens. de commut. select. bande / Tens. di commut. selez. banda / Tens. conmut. selec. banda

14V Schaltspg. / 14V switching volt. / Tens. commut. 14V / Tens. commut. 14V / Tens. de conm. 14V

22kHz Schaltspg. / 22kHz switching volt. / Tens. commut. 22kHz / Tens. commut. 22kHz / Tens. de conm. 22kHz

0/3/6/9V Schaltspg. / 0/3/6/9V switching volt. / Tens. commut. 0/3/6/9V / Tens. commut. 0/3/6/9V / Tens. de conm. 0/3/6/9V

Schaltspg. 4,5MHz / Switching volt. 4.5MHz / Tens. de commut. 4,5MHz / Tens. di commut. 4,5MHz / Tens conmut. 4,5MHz

Schaltspg. 50-60Hz / Switching volt. 50-60Hz / tens. de commut. 50-60Hz / Tens. di commut. 50-60Hz / Tens. conmut. 50-60Hz

Regelspg. AFC / AFC contr. volt. / Tens. de regul. AFC / Tens. di contr. AFC / Tens. regul. CAF

Regelspg. AFC Satellitentuner / AFC contr. volt. SAT tuner / Tens. de regul. AFC tuner SAT / Tens. di contr. AFC Tuner SAT / Tens. regul. CAF Tuner SAT

Feldstärkeabhängige Spg. / Fieldstrength-depent volt. / Contr. automatique de gain / Tens. dipent. intens. campo / Contr. autom. de gain tens. CAG

Regelspg. / Contr. volt. / Tens. de regul. / Tens. di contr. / Tens regul.

Abstimmspg. Tuner / Tuning volt. tuner / Tens. d'accord tuner / Tens. di sintonia tuner / Tens. sintonia tuner

Regelspg. Verzög. / Delayed contr. volt. / Tens. de regul. retardee / Tens. regul. retardada

Horizontale Ansteuerung / Horiz. drive / Synchr. lignes / Pilotaggio orizz. / Exitación horiz.

31250Hz Ansteuerimp. für Zeilenendstufe / 31250Hz Triggering pulse for horiz. output / 31250Hz commande pour l'étage final lignes / Imp. Pilotaggio di 31250Hz per stadio finale di riga / Impulso de exitación 31250Hz para paso final de lineas

Vert. Parabel / Vert. parabolic signal / Signal parabolique vert. / Segnale parab. vert. / Senal parabolica vert.

Vert. Tastimpuls / Vert. Gating pulse / Imp. trame / Imp. a cadenza vert. / Imp. cuadro

Vert. Tastimpuls 100Hz / Vert. Gating pulse 100Hz / Imp. trame 100Hz / Imp. a cadenza vert. 100Hz / Imp. cuadro 100Hz

Vert. Sägezahn / Vert. saw tooth / Signal dent de scie / Dente di sega vert. / Dientede sierra vert.

Vert. Tastimpuls / Vert. Gating pulse / Imp. trame / Imp. a cadenza vert. / Imp. cuadro

Vert Sägezahn 100Hz / Vert saw tooth 100Hz / Signal dent de scie 100Hz / Dente di sega vert. 100Hz / Dientede sierra vert. 100Hz

Vert. Parabel 100Hz / Vert. parabolic 100Hz signal / Signal parabolique 100Hz vert. / Segnale parab. vert. 100Hz / Senal parabolica vert. 100Hz

Tastimpuls / Gating pulse / Impuls de declenchement / Impulso a cadenza / Imp. puerta

Ref. Impuls hor. / Reference impulse hor. / Imp. de refer.hor. / Imp. di rifer. hor. / Imp. refer. horiz.

Klemmung Ein-Aus / Clamping On-Off / Clampage Marche-Arrêt / Clamping Ins.-Disins. / Clamping Enc.-Apag.

Pulse für Polarotor / Pulses for Polar-Rotor / Impulsions Rotor de Polariastion / Impulsi per Rotore Polarizzazione / Impulsos dara Polarrotor

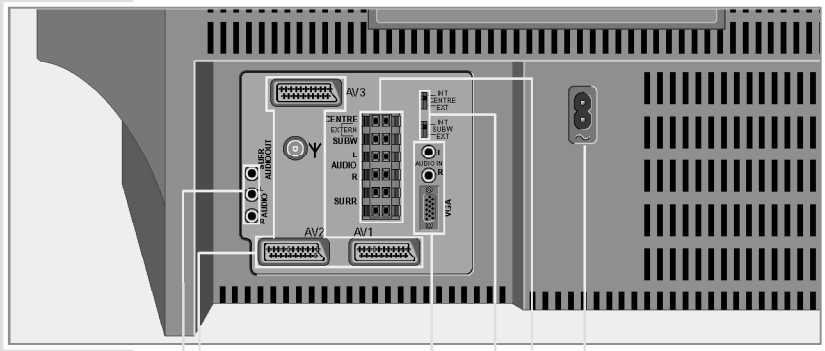
O-W Amplitude / E-W amplitude / Amplitude E-O / Ampiezza E-O / Amplitud E-O

## Bedienhinweise

Dieses Kapitel enthält Auszüge aus der Bedienungsanleitung. Weitergehende Informationen entnehmen Sie bitte der gerätespezifischen Bedienungsanleitung, deren Materialnummer Sie in der entsprechenden Ersatzteilliste finden.

### AUF EINEN BLICK

#### Die Rückseite des Fernsehgerätes




| | |
|---|---|
| ~ | Netzkabel zur Steckdose. |
| CENTRE | Klemmuchse für Center-Lautsprecher. |
| SURR | Klemmbuchsen für Surround-Lautsprecher. |
| L AUDIO R | Klemmuchsen für Front-Lautsprecher. |
| INT CENTER EXT | Steckbrücke für Center-Lautsprecher. |
| INT SUBW. EXT | Steckbrücke für Subwoofer. |
| VGA / L AUDIO IN R | Anschluss für Computer. |
| AV 1, AV2, AV3 | Euro/AV Buchsen |
| Y | Antennenbuchse (von der Hausantenne). |
| R AUDIO L | Ausgangsbuchsen für HiFi-Anlage. |
| SURR AUDIO OUT | Ausgangsbuchsen für aktive Surround-Boxen. |

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### AUF EINEN BLICK

| | |
|---|---|
| | Bildeinstellungen, Menü »BILD-EINSTELLUNGEN« aufrufen |
| | Uhrzeit ein/aus. |
| | Standbild. |
| | Toneinstellungen, Menü »TON-EINSTELLUNGEN« aufrufen. |
| - + | Farbstärke ändern. |
| - + | Helligkeit ändern. |
| PIP | Einmal drücken = Double Window (Fernsehbild und Videotext auf den Bildschirmhälften), zweimal drücken = Bild in Bild. |
| ? | Kurzanleitung aufrufen. |
| | Bildformat-Umschaltung. |
| AUX | Vorwahltaste für verschiedene Funktionen. |

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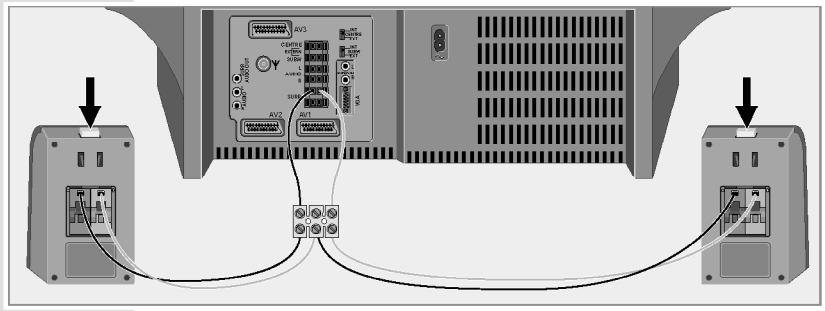
## ANSCHLIESSEN UND VORBEREITEN

### Lautsprecherboxen oder Verstärker anschließen

Für den Dolby Surround ProLogic-Betrieb müssen Sie die beiliegenden Surround-Boxen anschließen.

1 Lautsprecher an die Klemmen am Bildschirm anschließen.
Zum Einstecken des Lautsprecherkabels drücken Sie die Klemmhebel nieder. Die »–« Ader des Lautsprecherkabels stecken Sie in die schwarze (–) Klemme. Die »+« Ader (markierte oder farbige Ader) des Lautsprecherkabels stecken Sie in die rote Klemme.

#### Surround-Boxen anschließen (Standard-Einstellung)

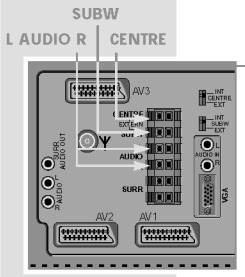


1 Beiliegende Surround-Boxen an die obere Klemmbuchse »**SURR**« anschließen.

**Hinweis:**
Werden mehrere Boxen an die Klemmbuchse »**SURR**« angeschlossen, achten Sie bitte darauf, daß die Nennimpedanz von 4 Ohm nicht unterschritten wird.



ANSCHLIESSEN UND VORBEREITEN




### Externe Lautsprecher-Boxen anschließen

1 Externe Frontlautsprecher an die Klemmbuchsen »**L AUDIO R**« anschließen.

2 Externen Centerlautsprecher an die Klemmbuchse »**EXTERN CENTRE**« anschließen.

3 Externen Subwoofer an die Klemmbuchse »**EXTERN SUBW**« anschließen.

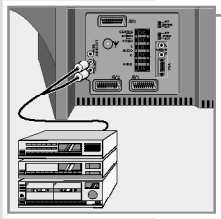
**Hinweis:**
Wird ein externer Center-Lautsprecher angeschlossen, muss die Steckbrücke »**INT CENTERE EXT**« so aufgesteckt werden, daß die Einkerbung der Steckbrücke auf die Position »**EXT**« zeigt.

Wird ein externer Subwoofer angeschlossen, muss die Steckbrücke »**INT SUBW EXT**« so aufgesteckt werden, daß die Einkerbung der Steckbrücke auf die Position »**EXT**« zeigt.

## ANSCHLIESSEN UND VORBEREITEN

### HiFi-Anlage oder aktive Lautsprecher anschließen (Links, rechts, Surround)

Als Frontboxen können Sie anstatt der Lautsprecher des Fernsehgerätes auch die bereits vorhandenen Boxen Ihrer HiFi-Anlage oder aktive Frontboxen verwenden.



1 HiFi-Anlage oder aktive externe links/rechts Lautsprecher an die Cinchbuchsen »**L AUDIO R**« anschließen.

2 Aktive externe Surroundlautsprecher an die Cinchbuchse »**SURR AUDIO OUT**« anschließen.

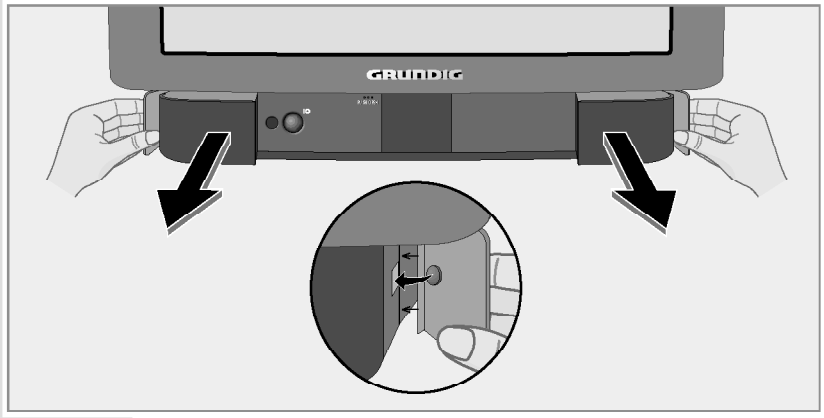
**Hinweise:**
Anstelle Aktiver Surround-Lautsprecher kann auch das als Zubehör erhältliche Wireless Surround System zur drahtlosen Übertragung des Surroundkanals angeschlossen werden.



ANSCHLIESSEN UND VORBEREITEN

### Front-Boxen abnehmen

Sie können die Front-Boxen abnehmen und zur Verbesserung der Stereowirkung weiter vom Fernsehgerät entfernt aufstellen.




1 Knopf an der Seite der Lautsprecherbox mit der beiliegenden Demontagehilfe eindrücken und Lautsprecherbox nach vorne abziehen.

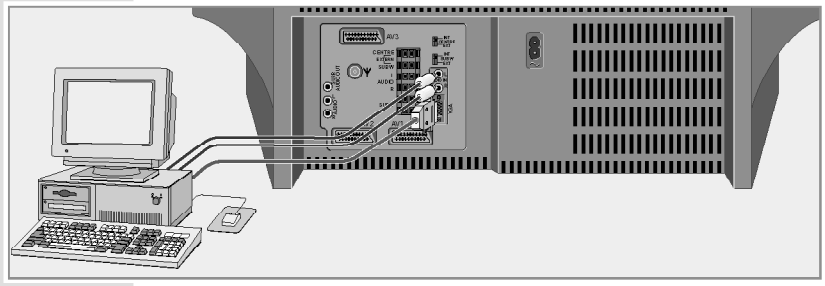
2 Beiliegende Abdeckblende anstelle der Lautsprecherbox einrasten.

3 Lautsprecherboxen mit dem beiliegenden Lautsprecherkabel an die Klemmbuchsen »**L AUDIO R**« anschließen.

## ANSCHLIESSEN UND VORBEREITEN

### Computer (VGA) anschließen

Sie können das Fernsehgerät als PC-Monitor verwenden.
Das Fernsehgerät kann sich auf folgende Eingangsignale einstellen:
640 x 480 Pixel, 60 Hz/31,5 kHz
640 x 400 Pixel, 70 Hz/31,5 kHz
640 x 350 Pixel, 70 Hz/31,5 kHz



1 VGA-Quelle (z.B. Computer, Spiele-Konsole) mit einem handelsüblchen VGA-Kabel an Buchse »**VGA**« anschließen.

2 Tonausgang des Computers (wenn vorhanden) mit einem handelsüblichen Cinch-Kabel an die Buchsen »**AUDIO**« anschließen.

**Hinweise:**
Am PC muss eine der obengenannten Auflösungen eingestellt sein (siehe Systemsteuerung des PC´s).

Das Display eines angeschlossenen Laptops muß ausgeschaltet werden (über Tastatur oder Systemsteuerung des Laptops, siehe dazu Bedienungsanleitung des Laptops).

Beim Anschluss eines Laptops muß dieser erst angeschlossen und dann eingeschaltet werden.

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## EINSTELLUNGEN

### Fernsehgerät ein-/ausschalten

An der Vorderseite zeigt eine Leuchtanzeige durch verschiedene Farben den jeweiligen Betriebszustand an.

**Grün** = Betrieb.
**Gelb** = Stand-by (EPG-Betrieb, Copy-Betrieb).
**Rot** = Stand-by (Energiesparbetrieb, Timer programmiert)

#### Fernsehgerät einschalten

1 Am Fernsehgerät »**IO**« drücken.
Das Fernsehbild erscheint am Bildschirm.

#### Fernsehgerät in Bereitschaft (Stand-by) schalten

1 An der Fernbedienung »⏻« einmal drücken.

#### Fernsehgerät vollständig ausschalten

1 Am Fernsehgerät »**IO**« drücken, oder
»⏻« an der Fernbedienung zweimal drücken
Voraussetzung:
Öko-Netzschalter ist aktiviert (Dialogcenter, Menü »Sonderfunktionen«).

**Hinweis:**
Der Öko-Netzschalter wird nicht ausgelöst, wenn ein Timer programmiert ist, oder der Kopierbetrieb eingeschaltet ist.

Wiedereinschalten ist nur mit »**IO**« am Fernsehgerät möglich.

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## EINSTELLUNGEN

### Fernseh-Programme einstellen

Das Fernsehgerät ist mit dem automatischen Programmsuchlauf ATS euro plus ausgestattet, der Ihnen die Programmplatzbelegung abnimmt.

1 Nach dem Einschalten des Fernsehgerätes Dialogsprache »Deutsch« mit »OK« bestätigen.

**Hinweis:**
Wenn die Seite »Dialogsprache wählen« nicht erscheint, Seite mit »i« und anschließend »OK« aufrufen. Das Dialogcenter blendet sich ein.
Mit »▲« oder »▼« »Automatische Programmierung« anwählen und mit »OK« bestätigen.
Mit »▲« oder »▼« die Zeile »Komplette Neuprogrammierung« anwählen und mit »OK« bestätigen

2 Gerätestandort mit »OK« bestätigen.

Der automatische Programmsuchlauf startet. Der Vorgang kann je nach Anzahl der zu empfangenden Fernseh-Programme eine Minute und länger dauern.

3 Nach Beenden der automatischen Programmplatzbelegung erscheint eine Tafel mit Hinweisen zum Installationsmenü.

4 Hinweistafel mit »TXT« abschalten.

Die Tafel »Installation « erscheint.

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## EINSTELLUNGEN

### Dolby-Pegel einstellen

**Hinweis:**
Betreiben Sie Ihr Gerät nicht mit der Standard-Lautsprecherausstattung (Links/rechts, Center, Surround), wählen Sie vor der »Dolby-Einpegelung« den Punkt »Lautsprecher Konfiguration« und stellen ein, welche Lautsprecher Sie angeschlossen haben.

1 Mit »▲« oder »▼« die Zeile »Dolby-Einpegelung« wählen und mit mit »OK« bestätigen.

2 Alle Lautsprecher gleichlaut zueinander einstellen.

3 Einstellung mit »TXT« beenden.
Eine Tafel mit Hinweisen zum Easy Dialog System erscheint.

4 Mit »TXT« zum Fernsehbetrieb schalten.

**Hinweis:**
Alle Punkte der Tafel »INSTALLATION« können auch zu einem späteren Zeitpunkt im Easy Dialog Center unter Punkt »INSTALLATION« aufgerufen werden.

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# EASY DIALOG SYSTEM

## Das Easy Dialog System

Ihr Fernsehgerät ist mit einem »Easy Dialog System« ausgestattet.
Das heißt, alle Bedienhinweise sind nicht wie sonst in einer gedruckten Anleitung, sondern in Dialogfeldern enthalten, die in das Bild eingeblendet werden können.

## Das Dialogcenter

Das Dialogcenter ist die Steuerzentrale Ihres Fernsehgerätes.
Hier können Sie vielfältige Einstellungen vornehmen, Informationen abrufen und gezielt Hilfen zur Bedienung Ihres Fernsehgerätes (z. B. Erklärung der Fernbedienung, Stichwortverzeichnis, Tips und Tricks) erhalten.
Probieren Sie es einfach aus. Sie können nichts falsch machen.

1 Mit »i« und anschließend »OK« Dialogcenter aufrufen.

– Die Dialogzeichen zeigen bei jedem Bedienschritt an, mit welchen Tasten bestimmte Funktionen ausgeführt werden können.

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# EASY DIALOG SYSTEM

## Bedienen des Easy Dialog Systems

| | |
|---|---|
| ▽, △ | Bewegen des gelben Balkens nach oben/unten; bei zweiseitigen Menüs wird auf die zweite Seite „umgeblättert". |
| ◁ ▷ | Einstellen von Werten. |
| OK | Aufrufen oder bestätigen der gewählten Funktion. |
| TXT | Zurück zum Fernsehbild. |
| i | DIALOG CENTER aufrufen (mit »i« und »OK«), schaltet eine Tafel zurück. |
| ? | Kurzanleitung aufrufen. |

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## FERNBEDIENUNG PROGRAMMIEREN

### Funktionsebenen programmieren

1 Schiebeschalter auf die Funktionsebene (SAT, VCR, DVD) schieben, die Sie programmieren wollen.
– Die Anzeige der gewählten Funktionsebene leuchtet ca. drei Sekunden

2 »**AUX**« und »**3**« gleichzeitig solange drücken, bis die Anzeige der gewählten Funktionsebene stetig leuchtet.

3 Beide Fernbedienungen im Abstand von ca. fünf Zentimetern gegeneinander richten.

4 Am TP 850 C die Taste drücken, die programmiert werden soll.
Die Anzeige der gewählten Funktionsebene blinkt einmal.

5 An der Original-Fernbedienung die Tastenfunktion, die gelernt werden soll solange drücken, bis die Anzeige der gewählten Funktionsebene am TP 850 zweimal blinkt.

**Hinweis:**
Konnte die Funktion nicht gelernt werden, blinken alle vier Anzeigen am TP 850 C zweimal. Wiederholen Sie in diesem Fall die Schritte **3** bis **5**.

6 Einstellung beenden, dazu »**AUX**« und »**3**« gleichzeitig drücken.
Die Anzeige blinkt zweimal.



## FERNBEDIENUNG PROGRAMMIEREN

### Zurücksetzen

Sie können die Fernbedienung in den Zustand der Werksauslieferung zurücksetzen.

#### Zurücksetzen einer Funktionsebene

1 Schiebeschalter auf die Funktionsebene (SAT, VCR, DVD) schieben, die zurückgestellt werden soll.

2 »**PIP**« und »**6**« solange gleichzeitig drücken, bis die Anzeige der gewählten Funktionsebene zweimal blinkt.

#### Zurücksetzen aller Funktionsebenen (außer TV)

1 Schiebeschalter auf die Funktionsebene TV schieben.

2 »**PIP**« und »**6**« solange gleichzeitig drücken, bis die Anzeigen der Funktionsebenen »SAT«, »VCR«, »DVD« zweimal blinken.

## KUNDENINFORMATION

### Service-Hinweise für den Fachhandel:

Das Gerät darf nur mit dem beiliegenden Netzkabelset betrieben werden.
Es verhindert Störungen aus dem Netz und ist Bestandteil der Gerätezulassung.
Für Ersatzzwecke bestellen Sie bitte bei einer Kundendienst-Stelle nur das Netzkabelset mit der Bezeichnung »GWN 9.22/Sachnummer 8290.991-316«.

CE Das Produkt erfüllt die Forderungen folgender EU-Richtlinien:
73/23/EWG Richtlinie betreffend elektrische Be-triebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen.
89/336/EWG Richtlinie über die elektromagnetische Verträglichkeit.

Das Gerät entspricht den Normen:
EN 60065, EN 55013, EN 55020

Das Gerät entspricht der Verordnung über den Schutz vor Schäden durch Röntgenstrahlen. Die Röntgenstrahlung – verursacht durch die Bildröhre – ist ausreichend abgeschirmt und darum völlig ungefährlich. Beschleunigungsspannung max. 34 kV/mittlerer Strahlstrom 1,6 mA.
Unsachgemäße Eingriffe, insbesondere Verändern der Hochspannung oder Einbau eines anderen Bildröhrentyps, können dazu führen, daß Röntgenstrahlung in erheblicher Stärke auftritt. So veränderte Geräte entsprechen nicht mehr dieser Zulassung und dürfen nicht betrieben werden.

### GRUNDIG Kundenberatungszentrum

Haben Sie Fragen?
Unser Kundenberatungszentrum steht Ihnen werktags stets von 8.00 – 19.00 Uhr zur Verfügung.

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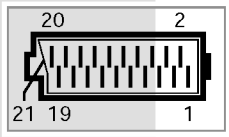
## KUNDENINFORMATION

### Kontaktbelegung EURO-AV-Buchse




Wenn Sie an das Fernsehgerät Zusatzgeräte anschließen wollen (z. B. Computer, Verstärkeranlage), dann kann Ihr Fachhändler anhand der folgenden Anschlusstabelle eine normgerechte Verbindung herstellen:

| Stift | | Signal |
|---|---|---|
| 1 | = | Audio Ausgang rechts |
| 2 | = | Audio Eingang rechts |
| 3 | = | Audio Ausgang links |
| 4 | = | Audio Masse |
| 5 | = | Blau Masse |
| 6 | = | Audio Eingang links |
| 7 | = | RGB Blau Eingang |
| 8 | = | Schaltspannung |
| 9 | = | Grün Masse |
| 10 | = | Datenleitung (MEGALOCIG) |
| 11 | = | RGB Grün Eingang |
| 12 | = | – |
| 13 | = | Rot Masse |
| 14 | = | Masse |
| 15 | = | RGB Rot Eingang, (S-Video = Chroma) |
| 16 | = | RGB Schaltspannung |
| 17 | = | Video Masse |
| 18 | = | RGB Schaltspannung Masse |
| 19 | = | Video Ausgang |
| 20 | = | Video Eingang, S-Video = Luminanz) |
| 21 | = | Abschirmung/Masse |

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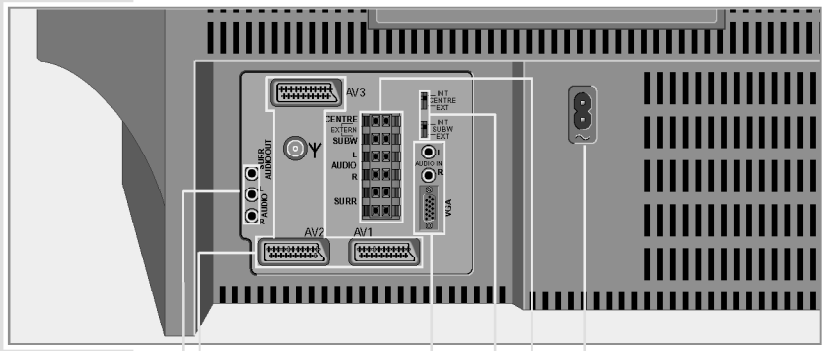
## Operating Hints

This chapter contains excerpts from the operating instructions. For further particulars please refer to the appropriate user instructions the part number of which is indicated in the relevant spare parts list.

### AT A GLANCE

#### The back of the TV set




| | |
|---|---|
| ~ | Mains cable connection socket. |
| CENTRE | Clamping terminal for centre speaker. |
| SURR | Clamping terminals for surround speakers. |
| L AUDIO R | Clamping terminals for front speakers. |
| INT CENTER EXT | Jumper for centre loudspeaker. |
| INT SUBW. EXT | Jumper for subwoofer. |
| VGA / L AUDIO IN R | PC connection socket. |
| AV 1, AV2, AV3 | Euro/AV sockets. |
| Y | Aerial input (for house aerial). |
| R AUDIO L | Output sockets for hifi system. |
| SURR AUDIO OUT | Output sockets for active surround speakers. |

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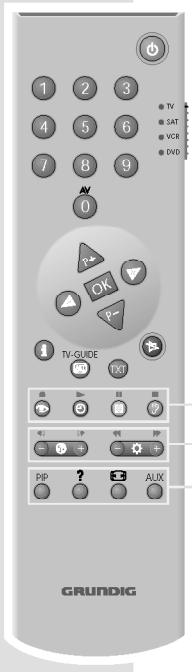
### AT A GLANCE




| | |
|---|---|
| | Picture settings, calls up the »PICTURE SETTINGS« menu. |
| | Clock time on/off. |
| | Still picture. |
| | Sound settings, calls up the »SOUND SETTINGS« menu. |
| - + | Colour contrast. |
| - + | Brightness. |
| PIP | Press once = double window (TV picture and teletext in the screen windows), press twice = picture-in-picture. |
| ? | Brief instructions |
| | Picture format switch-over |
| AUX | Preselection button for various functions. |

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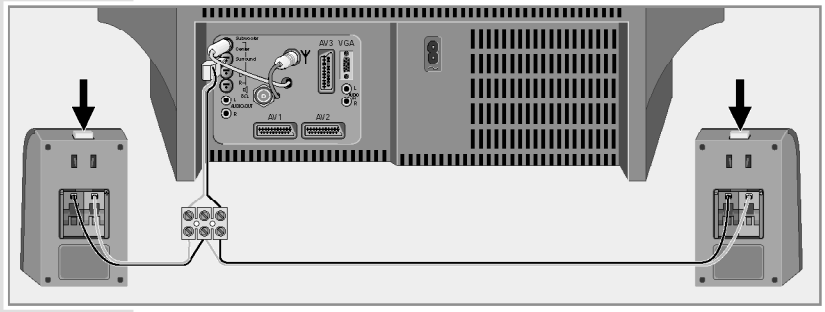
## CONNECTION AND PREPARATION

### Connecting speakers

For Dolby Surround ProLogic operation, you must connect the surround speakers supplied.

1 Connect the loudspeakers to the clamping terminals on the picture screen. Press down the clamping lever to insert the loudspeaker cable into the terminals. Insert the »–« core of the loudspeaker cable into the black (–) terminal and the »+« core (marked or coloured core) into the red terminal.

#### Connecting surround speakers (standard setting)

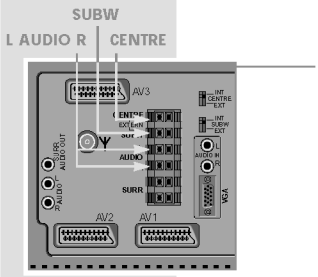



1 Connect the surround boxes supplied to the upper clamping terminal »**SURR**«.

**Note:**
If several speakers are connected to the »**SURR**« clamping terminal, be sure that the nominal impedance of 4 Ohms is reached.



CONNECTION AND PREPARATION




### Connecting external speakers

1 Connect external front loudspeakers to the »**L AUDIO R**« clamping terminals.

2 Connect an external centre loudspeaker to the »**EXTERN CENTRE**« clamping terminal.

3 Connect an external subwoofer to the »**EXTERN SUBW**« clamping terminal.

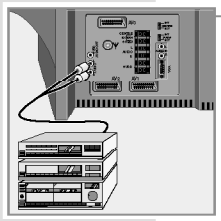
**Note:**
If an external centre speaker is connected, the »**INT CENTERE EXT**« jumper must be positioned so that its notch points to the »**EXT**« position.

If an external subwoofer is connected, the »**INT SUBW EXT**« jumper must be positioned so that its notch points to the »**EXT**« position.

## CONNECTION AND PREPARATION

### Connecting a hifi system or active loudspeakers (left, right, surround)

Instead of using the television speakers as front speakers, you can use the loudspeakers of your hifi system or active front speakers.



1 Connect the hifi system or the active left/right speakers to the »**L AUDIO R**« Cinch sockets.

2 Connect the active external surround loudspeakers to the »**SURR AUDIO OUT**« Cinch socket.

**Note:**
It is possible to connect a wireless surround system (optional accessory) for the wireless transmission of the sourrround channel instead of the active surround loudspeakers.

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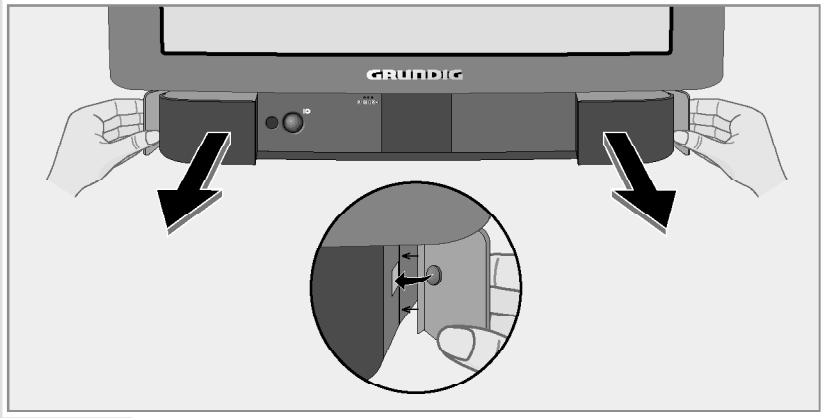
## CONNECTION AND PREPARATION

### Taking off the front speakers

You can take the front speakers off and improve the stereo effect by putting them further away from the TV set.




1 Depress the button on the side of the speaker with the help of the tool supplied and pull off the speaker.

2 Where the speakers were, lock the trimplates (included) into place.

3 Connect the speakers to the »**L AUDIO R**« clamping terminals using the speaker cable supplied.

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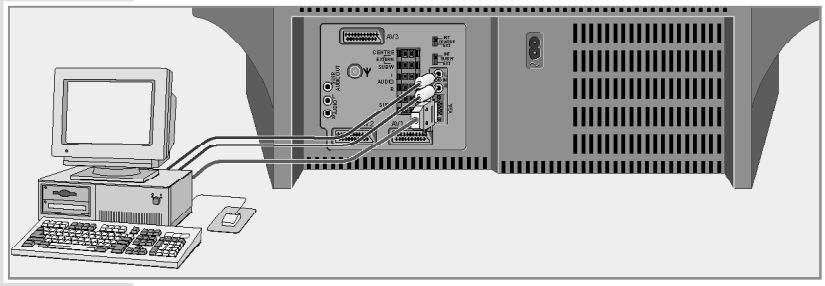
# CONNECTION AND PREPARATION

## Connecting a PC (VGA)

You can use the TV set as a PC monitor.
The television set can set itself to the following input signals:
640 x 480 Pixel, 60 Hz/31.5 kHz
640 x 400 Pixel, 70 Hz/31.5 kHz
640 x 350 Pixel, 70 Hz/31.5 kHz



1 Connect the VGA source (e.g. computer, games console) to the »**VGA**« socket using a commercially available VGA cable.

2 Connect the computer's audio output (if available) to the »**AUDIO**« sockets using a commercially available Cinch cable.

**Note:**
One of the above-mentioned resolutions must be set on the PC (see the PC's system control).

The display of a connected laptop computer must be switched off (using the keyboard or the laptop's system control; see the operating manual of the laptop).

When using a laptop, it has to be first connected and then switched on.

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# SETTINGS

## Switching the TV set on/off

An LED next to the mains switch indicates the current operating mode by a corresponding colour.

**Green** = Operation.
**Yellow** = Standby (EPG mode, copy mode).
**Red** = Standby (energy saving mode, timer programmed).

### Switching the TV set on

1 Press »**IO**« on the TV set.
The TV picture appears on the screen.

### Switching the TV set to standby

1 Press »⏻« on the remote control once.

### Switching the TV set off definitely

1 Press »**IO**« on the TV set, or
press »⏻« on the remote control twice.
Condition:
The ecologic switch must be activated (Dialog Centre, »Special Functions« menu).

**Note:**
The ecologic switch is not activated if a timer is programmed or the copy mode activated.

Switching on again is only possible with »**IO**« on the TV set.

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## SETTINGS

### Programming TV channels

The TV set is equipped with the automatic tuning system "ATS euro plus" which carries out channel position assignment for you.

1 After switching on the TV set, select he »English« dialog language and confirm with »OK«.

**Note:**
If the »Select dialog language« page does not appear, press »i« and then »OK« to display the Dialog Centre menu.
Use »△« or »▽« to select the »AUTOMATIC PROGRAMMING« row then confirm with »OK«.
Use »△« or »▽« to select the »Complete Reprogramming when moving house« row then confirm with »OK«.

2 Confirm your country with »OK«.

The automatic tuning system is started. Depending on the number of channels which can be received, the search can take one minute and more.

3 When the automatic allocation of the channel positions is completed, a table with information about the installation menu is displayed.

4 Press »TXT« to exit this table.

The »INSTALLATION« menu is displayed.

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## SETTINGS

### Setting the Dolby level

**Note:**
If you do not operate the TV set with the standard loudspeaker configuration (left/right, centre, surround), select the »Speaker configuration« menu prior to setting the Dolby level and select there the loudspeakers connected.

1 Use the »△« or »▽« button to select the »Dolby level adjustment« row then confirm with »OK«.

2 Adjust the same volume level for all loudspeakers.

3 End the setting with »TXT.
A table with information about the Easy Dialog System appears.

4 Press »TXT« to switch to TV operation.

**Note:**
It is possible to call up all functions of the »INSTALLATION« menu also later in the Easy Dialog Centre under »INSTALLATION«.

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# EASY DIALOG SYSTEM

## The Easy Dialog System

Your TV set is equipped with the Easy Dialog System.
That means that operating instructions are not, as is usual, in a printed manual, but rather appear on the screen as dialog fields.

## The Dialog Centre

The Dialog Centre is the control centre for your TV set.
Here you can make a variety of settings, call up information, and get specific help for operating your television (e.g. info about the remote control, a list of key words, tips and tricks).
Just try it out. You can't do anything wrong.

**1** Call up the Dialog Centre witht »i« and then »OK«.

– At every step of operation, the dialog symbols show which buttons can be used to carry out particular functions.



# EASY DIALOG SYSTEM

## Operating the Easy Dialog System

| | |
|---|---|
| ▽, △ | Move the yellow bar up/down.<br>With two-paged menus, the second page will be turned to. |
| ◀ ▶ | Change settings. |
| OK | Calls up or confirms selected functions. |
| TXT | Back to TV picture. |
| i | Acces to the Dialog Centre (with »i« and »OK«), one page back. |
| ? | Calls up brief instructions. |

## PROGRAMMING THE REMOTE CONTROL

### Programming function levels

1 Move the slide-switch to the function level (SAT, VCR, DVD) you want to programme.
– The display of the selected function level lights up for about three seconds.

2 Simultaneously press »**AUX**« and »**3**« until the display of the selected function level lights continuously.

3 Point both remote controls at each other at a distance of about five centimeters.

4 Press the button on the TP 850 C which is supposed to be programmed.
The display of the selected function level flashes once.

5 Press the function button which is supposed to be learned on the original remote control until the display of the selected function level on the TP 850 flashes twice.

**Note:**
If the function could not be learned, all four displays on the TP 850 will flash twice. In this case, repeat steps **3** to **5**.

6 To finish the settings, simultaneously press »**AUX**« and »**3**«.
The display flashes twice.



## PROGRAMMING THE REMOTE CONTROL

### Reset

You can reset the remote control back to the settings it was given in the factory.

#### Resetting a function level

1 Move the slide-switch to the function level (SAT, VCR, DVD) which is supposed to be reset.

2 Simultaneously press »**PIP**« and »**6**« until the display of the selected function level flashes twice.

#### Resetting all function levels (except TV)

1 Move the slide-switch to the TV function level.

2 Simultaneously press »**PIP**« and »**6**« until the displays of the function levels »SAT«, »VCR«, »DVD« flash twice.

## CUSTOMER INFORMATION

### Service information for the specialized dealer:

The TV set may be operated only using the mains cable set supplied.
It prevents mains interference and is an integral part of the appliance approval. For replacement purposes, please order only the mains cable set with the designation "GWN 9.22/part number 8290.991-316" from an approved after-sales service.

CE The product meets the requirements of the following EU guidelines:
73/23/EEC guideline on electrical equipment for use with certain voltage limits.
89/336/EEC guideline on electromagnetic compatibility.

The appliance complies with the standards:
EN 60065, EN 55013, EN 55020

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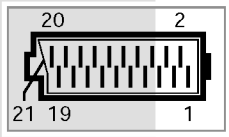
## CUSTOMER INFORMATION

### Contact assignment for the EURO-AV socket




If you want to connect an other appliance to the TV set (e.g. computer, amplifier), your specialist dealer can establish a proper connection using the following connection table:

| pin | | signal |
|---|---|---|
| 1 | = | audio output right |
| 2 | = | audio input right |
| 3 | = | audio output left |
| 4 | = | audio ground |
| 5 | = | blue ground |
| 6 | = | audio input left |
| 7 | = | RGB blue input |
| 8 | = | switching voltage |
| 9 | = | green ground |
| 10 | = | data line (MEGALOGIC) |
| 11 | = | RGB green input |
| 12 | = | – |
| 13 | = | red ground |
| 14 | = | ground |
| 15 | = | RGB red input (S Video = Chroma) |
| 16 | = | RGB switching voltage |
| 17 | = | video ground |
| 18 | = | RGB switching voltage ground |
| 19 | = | video output |
| 20 | = | video input, (S Video = luminance) |
| 21 | = | shielding/ground |

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# (D) Service- und Sonderfunktionen

## 1. Einschaltfunktionen

**1.1 ATS-Reset**
Netzschalter "EIN" mit gedrückter Nahbedientaste "L+".
- Gerät wird mit Analog-Grundwerten geladen
- ATS-Bit wird gesetzt. Diese Option löst beim nächsten Einschalten das ATS europlus aus. Die bisherige Programmbelegung (Senderkanäle) wird gelöscht.
- Schutzschaltungs-und Betriebsstundenzähler (im Menü "SERVICE FÜR DEN FACHHANDEL") werden auf Null gesetzt .

**1.2 ATS Start**
Über Menü –>"Dialogsprache einstellen" –>"Gerätestandort einstellen" –> Taste "OK" drücken, das Auto Tuning System (ATS) starten.
Der ATS sucht mit aufsteigender Frequenz, angezeigt wird der Kanal. Bei der Ländereinstellung F und *übrige kann wahlweise auf Kanal- oder Frequenzanzeige umgeschaltet werden.

Das ATS-System ermittelt die Senderkennung bzw. das ACI-Signal. Wird ein ACI-Sender gefunden, bricht der ATS-Suchlauf ab und die ACI Daten werden übernommen und in der Programmtabelle gespei chert. Beim Wechsel von ATS auf ACI ist für 5s mit der Taste "TXT" ein ACI-Abbruch möglich.
Tastendruck "TXT" oder "i" bricht den ATS-Lauf ab. ATS- Bit wird nicht zurückgesetzt.
ATS-Bit zurücksetzen ohne die bestehende Programmbelegung zu verändern:
Nach Abbruch des Suchlaufes mit "TXT" oder "i" die Taste "AUX" –> "grüne Taste" Kanaldirekteingabe anwählen und die Feinabstimmung um einen Schritt verstimmen und wieder zurücksetzen.
Nach dem Abspeichern ist das ATS-Bit zurückgesetzt.
Weiterhin wird für die Programme 1…99 der Lautstärkeoffset zurückgesetzt und die Grundwerte für "Lumadelay" und "Peaking", sowie das länderbezogene Peribit vorbelegt.

**1.3 Mittelwerte / Notdatensatz laden (ROM-Daten)**
**Dies ist nur einmal nach NVM- oder µP-Wechsel möglich.**
Nach Austausch des CIC80095 (NVM) muß das Gerät mit dem Notdatensatz gestartet werden.
Nahbedientaste "P-" gedrückt halten und das Gerät mit dem Netzschalter einschalten.
Durch diesen Vorgang wird die Kindersicherung deaktiviert und die nachfolgenden Daten aus dem EPROM IC 80070 in den NVM CIC80095 kopiert:

**CIC80095**:
(gerätespezifische Daten, über das Dialog Center einstellbar)
- Bildgeometrie
- Cut Off-Einstellung grün und blau (Weißabgleich)
- AFC-Reference
- OSD-Position und PIP-Position vertikal und horizontal
- Fertigungsdaten
- Sonderfunktionen, über das Dialog Center einstellbar, (ATS mit Sprache und Land, einschalten mit AV, Frequenz-Bit, AV1 bzw. AV2 S-Buchse, Balkeneinblendung, Megalogiceinblendung, Formatumschaltung und Bildformat, AVL, Bildröhre)
- Analogwerte (z. B. Helligkeit, Lautstärke, Farbstärke, SW-Kontrast)
- Perfect Clear
- Blauer Bildschirm
- Ökoschalter
- Security
- Bild- und Toneinstellung
- Frequenz, Kanalnummer, Senderkennung, Peri, Finetuning, Norm, Luma, Noise, Text/Menü, Umkehrpunkt, Lautstärke Offset
- letzte AV-Stellung (AV1…4) und letztes Programm
- Farbton
- Buchsenbelegung
- PIP-Position
- Record-Programm und Record-Timer

**1.4 Speicherbelegung CIC38091 (SAT-Baustein).**
- SAT-Kennung, Video-Daten (HUB, H/V), Tonfrequenz "High" und "Low"
- SAT-Kennung, Peri, Finetuning, Kanalnummer
- Tonfrequenz High/Low, Video-Daten (HUB, H/V)
- Luma, Noise, Norm, Text/Menü
- Laut-Fine, Ton Peak
- Senderkennung
- LNC-Frequenz

**1.5 Programmsperre (Kindersicherung)**
Die Tastenfolge "7 0 3 8 5 8 0" hebt die persönliche Kennzahl auf.

**1.6 EPROM-Versionsnummer**
Mit Taste "i" das Menü "DIALOG CENTER" –> OK aufrufen. Taste "AUX" zeigt die Versionsnummer des EPROMS an.

**1.7 PIP-Position (nur mit PIP-Baustein)**
Fernbedientaste "PIP" gedrückt halten und das Gerät mit dem Netzschalter einschalten. Dadurch wird der PIP-Mode aufgerufen.
Mit den Tasten ▶ ◀ ist die horizontale Position einstellbar.
Mit den Tasten ▲ ▼ ist die vertikale Position einstellbar.
Mit der Format-Taste kann die PIP-Position oben rechts/links, unten rechts/links gewechselt werden.
Mit "OK" Position speichern.
**Hinweis:** VGA- oder RGB-Signale können nicht als PIP-Bild eingeblendet werden.

**1.8 Service - Mode Programm** (zur Fehlersuche im I²C-Bus)
Diese Fehlermeldungen beziehen sich nur auf Störungen im I²C-Bus, also auf Bausteine oder Schaltkreise bei denen keine Rückmeldung (Acknowledge) über den I²C Bus erfolgt. Beispielsweise keine Betriebsspannung am Baustein, Unterbrechung der Leiterbahn oder I²C-Schnittstelle defekt.

**1.8.1 I²C-Bus, IC Test**
In diesem Fehlersuchprogramm fragt der Mikroprozessor CIC80050 die am I²C Bus angeschlossenen Bausteine oder Schaltkreise ab und zeigt sie als auszählbare Blinkfolge an der LED im Bedienteil an.

Nahbedientaste "P+" gedrückt halten und das Gerät mit dem Netzschalter einschalten.

Die Anzahl der Blinkimpulse zeigt den defekten Baustein lt. Tabelle an.
Beispiel der Blinkfolge:

rote LED blinkt schnell 10s
gelbe LED leuchtet 4s
grüne LED blinkt (z.b. 2x) = Zehnerstelle (2)

gelbe LED leuchtet 4s
grüne LED blinkt (z.B. 8x) = Einerstelle (8)

Ergebnis = 28

Mit der Nahbedientaste "L+" können evtl. weitere fehlerhafte Schnittstellen ermittelt werden.

| IC-Bezeichnung | Blink-Frequenz | Fehlerhafter Baustein/Schaltkreis |
|---|---|---|
| VPC (alle Typen) | 1 | Feature-Box |
| CIP3250 | 2 | Feature-Box |
| SDA5275 | 7 | Prozessor Modul |
| TEA6425 | 13 | Chassis (IC43570) |
| TEA6425 | 14 | Chassis (IC43670) |
| TEA6420 | 16 | Chassis |
| M24C16 (NVM) | 18, 19, 21-26 | Prozessor Modul |
| SDA9280 | 27 | Feature-Box |
| SDA9362 | 28 | Feature-Box |
| TDA4780 | 29 | Chassis |

## 2. Sonderfunktionen im Dialog Center

**2.1 Ökonetzschalter aktivieren bzw. deaktivieren**
Das Menü "Ökonetzschalter" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SONDERFUNKTIONEN" –> "OK" aufrufen.
Mit den Tasten ▶ ◀ auf "aus" oder "1h…4h" stellen.
Bei aktiviertem "Ökonetzschalter" trennt der Netzschalter das Gerät durch zweimaligen Tastendruck der Fernbedientaste "⏻" vom Netz.

**2.2 Einschalten mit Programm "1" oder "AV"**
Das Menü "Einschalten mit" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SONDERFUNKTIONEN" –> "OK" aufrufen.
Mit den Tasten ▶ ◀ auf "Programm" oder "AV" stellen.

**2.3 "Bild-/Tonskala" sichtbar oder unsichtbar für alle Programme**
Das Menü "Bild-/Tonskala" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SONDERFUNKTIONEN" –> "OK" aufrufen.
Bei "unsichtbar" erscheinen keine Balkenanzeigen für die Analogwerte.

**2.4 "Megalogic-Info"** (nur wenn Megalogic-Gerät erkannt wurde).
Das Menü "Megalogic-Info" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SONDERFUNKTIONEN" –> "OK" aufrufen.
Mit den Tasten ▶ ◀ kann die Megalogic-Steuerung auf ein (mit) bzw. aus (ohne) geschaltet werden.

**2.5 AVL ("Automatic Volume Limiter" (nur optional)**
Die Anzeige "Automatische Lautstärkebegrenzung" erscheint nur, wenn der MSP3410D (IC32300) mit AVL-Funktion im Gerät erkannt wurde.
In Stellung "ein" regelt der Ton-IC bei erhöhter Senderlautstärke (z. B. erhöhter HUB bei der Werbung) die Lautstärke intern auf den normalen Wert zurück.

## 3. Offene Service-Einstellungen

**3.1 Farbdeckung**
Das Menü "Farbdeckung" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" aufrufen. Mit den Tasten ▶ ◀ wird die Farbdeckung (Luma-Delay) programmplatzbezogen eingestellt.
Bei Geräten mit PIP-Baustein ist die Farbdeckung des PIP-Bildes zusätzlich einstellbar.

**3.2.1 Formatumschaltung über Senderkennung BLD bzw. WSS**
Mit der Fernbedientaste " ⊟ " kann das Bildformat in Abhängigkeit vom Bildschirm (4:3/16:9-Bildrohr) umgeschaltet werden.
Bei 16:9-Geräten wird in Stellung "auto" bei jedem Statuswechsel in Abhängigkeit der Sender-Information (**W**ide **S**creen **S**ignaling Bit) das Bild über den **B**lack **L**ine **D**etector automatisch auf das entsprechende Format geschaltet.

**3.2.2 Formatumschaltung mit Schaltspannungs-Auswertung**
Das Gerät paßt in Abhängigkeit von der an Pin 8 der aktiven EURO-AV-Buchse anstehenden Spannung das Bildformat an. Die Bildformat-Umschaltung ist bei AV-Betrieb für die AV-Buchse aktiv (AV 1, AV 2, AV 3).

bei 16:9-Bildröhren

| Bildformat vor dem Spannungswechsel | neues Bildformat nach Pin 8: 0/12V –> 6V | neues Bildformat nach Pin 8: 6V –> 0/12V |
|---|---|---|
| 16:9 | - | altes Format * |
| Cinema Zoom | 16:9 | altes Format * |
| Panorama Zoom | 16:9 | altes Format * |
| 4:3 | 16:9 | altes Format * |
| 14:9 | 16:9 | altes Format * |

bei 4:3-Bildröhren

| Bildformat vor dem Spannungswechsel | neues Bildformat nach Pin 8: 0/12V –> 6V | neues Bildformat nach Pin 8: 6V –> 0/12V |
|---|---|---|
| 16:9 | - | altes Format * |
| 4:3 | 16:9 | altes Format * |
| Panorama Zoom | 16:9 | altes Format * |

* unter altem Format wird das letzte vor dem Spannungswechsel manuell eingestellte Bildformat verstanden.

**3.3 Rauschreduktion P1...99 bzw. P1...199 (bei SAT-Baustein)**
Das Menü "Rauschreduktion" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" aufrufen. Mit den Tasten ▶ ◀ können Sie die Rauschreduktion für die **Programme 1...99** bzw. 1...199 auf "aus", "schwach" oder "automatisch" stellen.
Bei "manuell" wird angezeigt, daß ein oder mehrere Programme unterschiedliche Einstellungen haben.

**3.4 Decoder P1...99 bzw. P1...199 (bei SAT-Baustein)**
Das Menü "Decoder" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" aufrufen. Mit den Tasten ▶ ◀ können Sie den Decoder für alle Programme auf "aus" oder "ein" stellen. In Stellung "manuell" kann die Decoderumschaltung für die einzelnen Programme auf unterschiedlicher Eingabe, wie "aus" oder "ein" stehen.

**3.5 Bildschärfe**
Das Menü "Bildschärfe" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" aufrufen. Mit den Tasten ▶ ◀ können Sie die Bildschärfe für alle Programme in drei Schritten verändern.

**3.6 Decoder P. für verschlüsselte Sendungen**
Das Menü "Decoder-Ton P." mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" aufrufen. Mit den Tasten ▶ ◀ können Sie programmplatzbezogen für verschlüsselte Sendungen einen analogen oder digitalen Decoder auf interne oder externe Umschaltung stellen.

**3.7 IR-Dataprogrammer (nur mit terr. Baustein)**
Das Menü "IR-Dataprogrammer" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" aufrufen. Mit der Taste "OK" können mit dem IR-Dataprogrammer 2 max. 99 Programmplätze mit Daten für Kanal, Norm, Peri, 4-stellige Sendereinblendung, Finetuning Mitte und Lautstärke Offset "0" abgespeichert werden.
Der Programmer AP überträgt nur Kanäle und die 4-stelligen Senderkennzeichen mit Finetuning Mitte und Lautstärke-Offset "0".

**3.8 Rotation**
Das Menü "Rotation" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" aufrufen. Mit den Tasten ▶ ◀ können Sie den Darstellungswinkel zum Bildschirm auf Null abgleichen.
N/S-Trapez im Geometriemenü.

## 4. Service-Einstellungen für den Fachhandel

**4.1 AFC-Referenz**
Sender mit genormtem Kanalraster ohne Finetuning im Band 1 einspeisen.
Das Menü "AFC-Referenz" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" –> "Nur für den Fachhändler" –> "OK" –> Kennzahl "8500" –> aufrufen.
Nach Tastendruck "OK" erscheint der automatisch ermittelte AFC-Wert (Siehe Abgleich Punkt 4).

**4.2 Hosiden-Buchse**
Das Menü "Hosiden-Buchse" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" –> "Nur für den Fachhändler" –> "OK" –> Kennzahl "8500" –> aufrufen.
Mit den Tasten ▶ ◀ auf "mit" oder "ohne" stellen
(z.B. nach Wechsel des EPROM).

**4.3 Weißabgleich**
Das Menü "Weißabgleich" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" –> "Nur für den Fachhändler" –> "OK" –> Kennzahl "8500" –> aufrufen.
Mit den Tasten ▶ ◀ ist der Wert für "grün" und "blau" einstellbar (Siehe Abgleich Punkt 6).

**4.4 EGP-Flash löschen**
Das Menü "EGP-Flash löschen" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" –> "Nur für den Fachhändler" –> "OK" –> Kennzahl "8500" –> aufrufen.
Nach Tastendruck "OK" wird der Inhalt des EGP-Flash gelöscht.

**4.5 Schutzschaltung**
Das Menü "Schutzschaltung" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" –> "Nur für den Fachhändler" –> "OK" –> Kennzahl "8500" –> aufrufen.
Schutzschaltungs-und Betriebsstundenzähler können abgelesen, bzw. nach jeden ATS-Reset auf Null gesetzt werden.

**4.6 Einschalten mit**
Das Menü "Einschalten mit" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" –> "Nur für den Fachhändler" –> "OK" –> Kennzahl "8500" –> aufrufen.
Mit den Tasten ▶ ◀ auf "Testbild" oder "TV" stellen.

**4.7 Blauen Bildschirmhintergrund ein/ausschalten**
Das Menü "Blauer Bildschirm" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" –> "Nur für den Fachhändler" –> "OK" –> Kennzahl "8500" –> aufrufen.
Mit den Tasten ▶ ◀ auf "ein" oder "aus" stellen.

**4.8 Bildröhrentyp**
Das Menü "Bildröhrentyp" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" –> "Nur für den Fachhändler" –> "OK" –> Kennzahl "8500" –> aufrufen.
Bildröhrentyp eingestellen (Siehe Abgleich Punkt 7).

**4.9 Telepilot**
Das Menü "Telepilot" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" –> "Nur für den Fachhändler" –> "OK" –> Kennzahl "8500" –> aufrufen.
Mit den Tasten ▶ ◀ auf den zum Gerät beiliegenden Telepilot stellen.

**4.10 Terr. Tuner Modul**
Das Menü "Terr. Tuner Modul" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" –> "Nur für den Fachhändler" –> "OK" –> Kennzahl "8500" –> aufrufen.
Mit den Tasten ▶ ◀ auf eingebauten Tuner stellen.

**4.11 Geometrie**
Das Menü "Geometrie" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" –> "Nur für den Fachhändler" –> "OK" –> Kennzahl "8500" –> aufrufen.
Mit Geometrie-Testbild Geometrie einstellen (siehe Abgleich Punkt 10).

**4.12 SAT vorprogrammieren** (nur mit bestücktem SAT-Baustein)
Das Menü "SAT vorprogrammieren" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" –> "Nur für den Fachhändler" –> "OK" –> Kennzahl "8500" –> aufrufen.
Mit der Taste "OK" bestätigen. Dadurch wird z. B. nach Wechsel des EEPROM CIC38091 (SAT-Baustein) aus dem EPROM CIC80070 die gespeicherte SAT-Sendertabelle übertragen.

**4.13 Watchdog On/Off**
"Watchdog" mit Taste "i" über "DIALOG CENTER" –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" –> "Nur für den Fachhändler" –> "OK" –> Kennzahl "8500" –> aufrufen.
Watchdogtimer wird im 20s -Takt zurückgesetzt. Fehlt der Impuls innerhalb dieser Zeit, wird ein Neustart ausgelöst.
Watchdog ausschalten:
- mit der grünen Taste der Fernbedienung auf "Off" stellen oder
- Netzschalter ein bei gedrückter P+/Taste oder
- Netzschalter ein bei gedrücker P-/Taste

## 5. Ton-Einstellungen

Mit blauer Taste –> "OK" das Menü "TON-EINSTELLUNGEN" aufrufen.

**5.1 Tonpegel Px**
Programmplatzbezogener Lautstärke-Offset zum Ausgleich von Lautstärkeunterschieden zwischen den einzelnen Sendern.
Der eingestellte Wert wird beim Verlassen des Menüs gespeichert.
(Auf AV-Plätzen ist dieser Menüpunkt nicht vorhanden).

**5.2 Balance**
Lautstärke-Einstellung zwischen linkem und rechtem Kanal

**5.3 Equalizer**
Einstellmenü für 5-Band-Equalizer

**5.4 Basisbreite**
Umschaltbar zwischen "normal" und "breit".
(nicht bei Dolby Surround und Virtual Dolby)

**5.5 Tonumschaltung und Kopfhörer-Tonumschaltung**
Mit den Tasten ▶ ◀ sind je nach Sender-Norm verschiedene Einstellungen anwählbar:
- "Mono": bei reinen Mono-Sendungen (Anzeige nicht änderbar)
- "Mono A / Mono B": bei 2-Ton-Sendungen
- "Stereo / Mono": bei schlechtem Stereo-Ton kann auf Mono geschaltet werden
- "Nicam / FM"
- "Nicam A / Nicam B / FM"
- "Nicam Stereo / FM"

**5.6 Audio-Ausgang**
Mit den Tasten ▶ ◀ auf "fest" oder "regelbar" stellen.
(mit 2-Kanal-NF-Baustein ohne Line Out ist dieser Menüpunkt nicht vorhanden).

**5.7 Lautsprecher-Ausg.**
Mit den Tasten ▶ ◀ auf "ein" oder "aus" stellen.
(mit 2-Kanal-NF-Baustein ohne Line Out ist dieser Menüpunkt nicht vorhanden).

## 6. Bild-Einstellungen

**6.1 Grundeinstellung**
Mit roter Taste das Menü "BILD-EINSTELLUNGEN" aufrufen. Über die Menüführung sind die Einstellungen "Persönliche Werte", "Am Tag", "Am Abend" und "Soft" anwählbar (rote Taste). Die "Persönliche Werte"-Einstellung läßt eine Regulierung von Kontrast, Bildschärfe, Rauschreduktion und Weißbalance zu. In den anderen Einstellungen sind bestimmte Werte fest vorgegeben.

Abweichungen der Einstellungen gegenüber "Persönliche Werte":
- "Am Tag": Rauschreduktion und Bildschärfe beliebig, Vollkontrast und geänderte Weißbalance.
- "Am Abend": Rauschreduktion und Bildschärfe beliebig, reduzierter Kontrast und geänderte Weißbalance.
- "Soft": Rauschreduktion Mitte, minimale Bildschärfe, reduzierter Kontrast und Weißbalance beliebig.

**6.2 Bildschärfe**
Mit roter Taste –> "OK" das Menü "BILD-EINSTELLUNGEN" aufrufen und "Bildschärfe" anwählen.
Mit den Tasten ▶ ◀ können Sie die "Bildschärfe" programmplatzbezogen in drei Schritten verändern.

**6.3 Perfect Clear**
Mit roter Taste –> "OK" das Menü "BILD-EINSTELLUNGEN" aufrufen und "Perfect Clear" anwählen.
Mit den Tasten ▶ ◀ können Sie "Perfect Clear" ein- bzw. ausschalten.

**6.4 Kammfilter**
Mit roter Taste –> "OK" das Menü "BILD-EINSTELLUNGEN" aufrufen und "Kammfilter" anwählen.
Mit den Tasten ▶ ◀ können Sie programmplatzbezogen zwischen den Einstellungen "aus" und "automatik" wählen.
(Im VGA-Betrieb ist dieser Menüpunkt nicht vorhanden).

**6.5 Rauschreduktion**
Mit roter Taste –> "OK" das Menü "BILD-EINSTELLUNGEN" aufrufen und "Rauschredukt" anwählen.
Mit den Tasten ▶ ◀ können Sie die Rauschreduktion programmplatzbezogen zwischen "aus", "auto", "schwach" und "stark!" stellen ("stark!" nicht speicherbar).

**6.6 Zeilenflimmer-Reduktion**
Mit roter Taste –> "OK" das Menü "BILD-EINSTELLUNGEN" aufrufen und "Zeilenflimmer-Redukt." anwählen.
Mit den Tasten ▶ ◀ können Sie zwischen den Einstellungen "aus" und "automatik" wählen.
(Im VGA-Betrieb ist dieser Menüpunkt nicht vorhanden).

## 7. Einstellungen über die Senderbelegung

Programmbezogene Einstellungen über die Senderkennung schalten das Gerät in einen Zwangsmode. Dadurch wird die automatische Auswertung unterdrückt.

**7.1 Maximale Programmnummer (Umkehrpunkt)**
Das Menü "TV-PROGRAMM-TABELLE" mit Taste "i" über "DIALOG CENTER" –> "OK" aufrufen und gewünschten Sender mit "grüner Taste" aktivieren.
Nach Eingabe der Kanalziffer "00"' auf einem beliebigen Programmplatz, können mit den Tasten ▲ ▼ die nachfolgenden Programme nicht mehr fortgeschaltet werden. Liegt der Umkehrpunkt ≤ 10 ist nur eine einstellige, ≤100 nur eine zweistellige Programmplatzwahl möglich.

### 7.2 Zwangseinstellungen im Programm-Mode

Das Menü "TV-PROGRAMM-TABELLE" mit Taste "**i**" über "DIALOG CENTER" –> "OK" aufrufen und gewünschten Sender mit "blauer Taste" aktivieren.
Um Einstellungen über Senderkennung zu aktivieren, muß an der 4. Stelle von links ein Komma eingegeben werden. An der 5. und 6. Stelle befinden sich die eigentlichen Schaltinformationen (siehe Tabelle). Die ersten drei Stellen der Senderkennung können beliebige Zeichen enthalten.

Beispiel: XXX,MO nur Monoton

Bei richtiger Einstellung wird als Senderkennung nur die ersten 3 Stellen angezeigt, die Schaltinformation wird unterdrückt.

Anzeige: XXX

Mögliche Schaltstellungen:

| Senderkennung | | erzwingen von |
|---|---|---|
| XXX,MO | -> | Zwangsmono bei Stereosendungen |
| XXX,2T | -> | Selektion 2.Tonträger bei Zweitonsendungen |
| XXX,AF | -> | AFC-Regelung aktiv |
| XXX,AV | -> | VCR-Zeitkonstante aktiv |

## 8. Einstellung der Analogwerte

Die zuletzt eingestellten Analogwerte werden nach ca. 10s, oder beim Wechsel in die AV-Programmplätze oder umgekehrt, automatisch gespeichert. Unterschreiten Sie für die nachfolgenden Werte den Minimalwert lt. Tabelle, wird beim Einschalten des Gerätes oder Wechsel von HF –> AV der Optimalwert initialisiert (eingestellte Werte werden nicht gespeichert).
Die terrestrischen Programme und die AV-Stellungen haben jeweils getrennte Analogwerte.

| | Minimalwert | Optimalwert |
|---|---|---|
| Lautstärke | – | 31 |
| Kopfhörer. Lautst. | 10 | 31 |
| Helligkeit | 10 | 32 |
| Farbkontrast | 10 | 32 |
| Kontrast | 10 | 57 |

# (GB) Service and Special Functions

## 1. Switching-on Options

**1.1 ATS Reset**
Press and hold button "L+" on the TV and switch the mains button "ON".
- Analog default values are loaded
- ATS bit is set. This option starts the ATS europlus function the next time the TV is switched on. The previous programme allocations (channels) are cleared.
- Safety circuit counter and operating hours meter (in "SERVICE" menu) is set to zero.

**1.2 ATS Start**
The Auto Tuning System (ATS) is started selecting the menu –> "Adjust language on screen" –> "Adjust country" –> pressing the "OK" button.
The ATS system scans the frequencies in ascending order, indicating the channel. When setting the country F and *others, the display mode can be changed optionally to indicate either the channel or the frequency.

The ATS system determines the station identification or ACI signal.
When finding an ACI station, ATS search is stopped, the ACI data is taken over and entered into the station table. When changing from ATS to ACI it is possible during a period of 5s to stop the ACI function with the button "TXT".
Pressing the "TXT" or "i" button stops the ATS function. The ATS bit will not be reset.
Resetting the ATS bit without changing the existing channel table:
On stopping the station search function by pressing "TXT" or "i", select "AUX" –> "green button" for direct channel entry, detune the finetuning value by one step and reset it. On storing this setting, the ATS bit is reset.
Additionally, for the programmes 1...99, the volume offset is reset and the default values for "Lumadelay" and "Peaking" are stored together with the Peri-bit for the respective country.

**1.3 Loading the Average Values / Emergency Data Set (ROM Data)**
**This is only possible once on replacement of the NVM or µP.**
On replacement of CIC80095 (NVM) the TV must be started with the emergency data set.
Press and hold the "P-" button on the TV and switch on with the mains button. In doing so, the parental lock is deactivated and the following data is read out from EPROM CIC80070 and loaded into the non-volatile memory IC80095:

**IC80095:** (data specific to TV, can be set via the Dialog Center):
- picture geometry
- cut-off green and blue (white balance)
- AFC reference
- OSD position and PIP position, vertical and horizontal
- production data
- special functions, can be set via the Dialog Center (ATS with language and country selection, switching on with AV, frequency bit, AV1 or AV2 S-socket, display of bar scales, Megalogic data insertion, format switch-over and picture format, AVL, picture tube)
- analog values (e.g. brightness, volume, colour saturation, black/white contrast)
- Perfect Clear
- blue screen
- economy switch
- security
- picture and sound settings
- frequency, channel number, station ident, Peri, finetuning, TV standard, luminance, noise, text/menu, reversal point, volume offset
- last AV position (AV1...4) and last programme
- tint
  socket configuration
- PIP position
- record programme and record timer

**1.4 Memory contents CIC38091 (SAT Module)**
- SAT ident, video data (deviation, H/V), audio frequency "High" and "Low"
- SAT ident, Peri, finetuning, channel number
- audio frequeny High/Low, video data (deviation, H/V)
- luminance, noise, TV standard, text/menu
- volume fine, sound peak
- station ident
- LNC frequency

**1.5 Electronic Programme Lock (parental lock)**
To cancel your personal code number enter "/ 0 3 8 5 8 0" in this order.

**1.6 EPROM Version Number**
Press button "i" to call up the "DIALOG CENTER" –> OK. Button "AUX" shows the version number of the EPROM.

**1.7 PIP Position (only with PIP Module)**
Depress and hold the "PIP" button on the remote control handset and switch on with the mains button to call up the PIP Mode.
Using the buttons ▶ ◀ the horizontal position can be changed.
Using the buttons ▼ ▲ the vertical position can be changed.
Using the format button, the upper right/left and lower right/left position of the PIP can be changed.
Store the position with "OK".
**Note:** VGA- or RGB signals cannot be inserted as a PIP picture.

**1.8 Service Mode Programme** (for fault finding on $I^2C$ bus)
These error messages refer only to interferences on the $I^2C$ bus, that is to modules or circuits which do not send an acknowledgment via the $I^2C$ bus, e.g. no operating voltage supplied to the module, break in the circuit path or $I^2C$ interface defective.

**1.8.1 $I^2C$ Bus, IC Test**
In this fault finding programme, the microprocessor CIC80050 scans the individual modules or circuits connected to the $I^2C$ bus and indicates them as a countable pulse sequence at the LED of the keyboard control unit.

Press and hold "P +" on the TV and switch on with the mains button.

The number of pulses indicates the defective module as shown in the table.
Example:

red LED flashes quickly for 10s
yellow LED lights for 4s
green LED flashes (e.g. 2 times) = ten's place (2)

yellow LED lights for 4s
green LED flashes (e.g. 8 times) = unit's place (8)

Result: = 28

With button "L+" on the TV it is possible to find out further defective interfaces.

| Designation of IC | Number of Clocks | Defective Module/Integrated Circuit |
|---|---|---|
| VPC (all types) | 1 | Feature Box |
| CIP3250 | 2 | Feature Box |
| SDA5275 | 7 | Processor Module |
| TEA6425 | 13 | Chassis (IC43570) |
| TEA6425 | 14 | Chassis (IC43670) |
| TEA6420 | 16 | Chassis |
| M24C16 (NVM) | 18, 19, 21-26 | Processor Module |
| SDA9280 | 27 | Feature Box |
| SDA9362 | 28 | Feature Box |
| TDA4780 | 29 | Chassis |

## 2. Special Functions in the Dialog Center

**2.1 Activating or Deactivating the Mains Economy Switch**
Reach the "Mains economy sw." menu with button "i" via "DIALOG CENTER" –> "OK" –> "SPECIAL FUNCTIONS" –> "OK".
With the buttons ▶ ◀ select "off" or "1h…4h".
On activation of "Mains economy sw." the mains switch disconnects the TV from the mains supply by pressing the button ⏻ on the remote control handset twice.

**2.2 Switching on with Programme "1" or "AV"**
Reach the "Switch on with" menu with button "i" via "DIALOG CENTER" –> "OK" –> "SPECIAL FUNCTIONS" –> "OK".
With the buttons ▶ ◀ select "Programme" or "AV".

**2.3 Picture/Sound Options visible or invisible for all Programmes**
Reach this menu via "DIALOG CENTER" –> "OK" –> "SPECIAL FUNCTIONS" –> "OK" by pressing button "i".
When selecting "invisible" the bar scales indicating the analog values do not appear.

**2.4 Megalogic-Info** (only if Megalogic feature is identified)
Reach the "Megalogic-Info" menu via "DIALOG CENTER" –> "OK" –> "SPECIAL FUNCTIONS" –> "OK" by pressing button "i".
With the buttons ▶ ◀ the Megalogic function can be switched on (With) or off (Without).

**2.5 AVL (Automatic Volume Limiter - only optional)**
The indication "Automatic Volume Limiter" appears only if the MSP3410D (IC32300) with AVL function is identified in the set.
When selecting "on", the sound-IC reduces the volume internally to the normal value if the volume level of a transmitting station is increased (e.g. increased DEVIATION during ads).

## 3. Open Service Settings

**3.1 Colour Match**
Reach the "Colour match" menu via "DIALOG CENTER" –> "OK" –> "SERVICE" –> "OK" pressing button "i".
With the buttons ▶ ◀ the luma delay is set on a per programme basis. The luma delay is to be set additionally for TV sets fitted with a PIP Module.

**3.2.1 Picture Format Selection via BLD or WSS Station Ident**
The remote control button "⊟" allows to switch the picture format over dependent on the type of screen (4:3/16:9 picture tube).
In "Auto" mode, the picture of 16:9 TV sets is automatically changed to the respective format on every change of the status via the **B**lack **L**ine **D**etector by means of the **W**ide **S**creen **S**ignalling Bit from the transmitter.

**3.2.2 Picture Format Selection by Switching Voltage Evaluation**
The TV set changes the picture format according to the voltage applied to Pin 8 of the active EURO-AV socket. In AV operating mode, the picture format switching function is active for the AV socket (AV1, AV2, AV3).

with 16:9 picture tubes

| Format before voltage change | New format on voltage change at Pin 8: 0/12V –> 6V | New format on voltage change at Pin 8: 6V –> 0/12V |
|---|---|---|
| 16:9 | - | old format * |
| Cinema Zoom | 16:9 | old format * |
| Panorama Zoom | 16:9 | old format * |
| 4:3 | 16:9 | old format * |
| 14:9 | 16:9 | old format * |

with 4:3 picture tubes

| Format before voltage change | New format on voltage change at Pin 8: 0/12V –> 6V | New format on voltage change at Pin 8: 6V –> 0/12V |
|---|---|---|
| 16:9 | - | old format * |
| 4:3 | 16:9 | old format * |
| Panorama Zoom | 16:9 | old format * |

* old format means the picture format last selected manually before the voltage was changed.

**3.3 Noise Reduction P1...99 or 1...199 (with SAT Module)**
Reach the "Noise reduct." menu via "DIALOG CENTER" –> "OK" –> "SERVICE" –> "OK" pressing button "i". With the buttons ▶ ◀ the noise reduction can be set to "Off", "weak", "Auto" for all of the **programmes 1...99** or 1...199.
The indication "manual" says that different settings have been selected for one or more programmes.

**3.4 Decoder P1...99 or 1...199 (with SAT Module)**
Call up the "Decoder" menu via "DIALOG CENTER" –> "OK" –> "SERVICE" –> "OK" with button "i". With the buttons ▶ ◀ it is possible to switch the decoder "Off" or "On" for all programmes. The "manual" setting allows the decoder to be switched to "Off" or "On" for individual programmes dependent on the manually entered option.

**3.5 Picture Sharpness**
Call up the "Sharpness" menu via "DIALOG CENTER" –> "OK" –> "SERVICE" –> "OK" with button "i". With the buttons ▶ ◀ it is possible to adjust the picture sharpness in three steps for all programmes.

**3.6 Decoder P. for Coded Transmissions**
Call up the "Decoder sound P." menu via "DIALOG CENTER" –> "OK" –> "SERVICE" –> "OK" with button "i". With the buttons ▶ ◀ it is possible to set an analog or digital decoder for scrambled transmissions to internal or external switch-over on a per-programme basis.

**3.7 IR Data Programmer (only with Terrestrial Module)**
Reach the "IR-Dataprogrammer" menu via "DIALOG CENTER" –> "OK" –> "SERVICE" –> "OK" pressing button "i". The IR Dataprogrammer 2 makes it possible to store a maximum of 99 programme positions with the data for channel, TV standard, Peri, 4-place station ident display, finetuning center frequency, and the volume offset "0" using the "OK" button.
The Programmer AP transfers only the channels and 4-place station identifications with finetuning center frequency and volume offset "0".

**3.8 Rotation**
Reach the "Rotation" menu option via "DIALOG CENTER" –> "OK" –> "SERVICE" –> "OK" pressing button "i". With the buttons ▶ ◀ it is possible to adjust the display angle of the picture with reference to the screen to zero.
N/S trapezium in Geometry menu.

## 4. Service Settings for the Dealer

**4.1 AFC Reference**
Tune in to a station in band I with standardized channel raster without finetuning.
Reach the "AFC reference" menu via "DIALOG CENTER" –> "OK" –> "SERVICE" –> "OK" –> "Only for the retailer" –> "OK" –> Code Number "8500" pressing button "i".
On pressing the "OK" button the automatically determined AFC value is indicated (see point 4 of alignment instructions).

**4.2 Hosiden Socket**
Reach the "Hosiden socket" menu via "DIALOG CENTER" –> "OK" –> "SERVICE" –> "OK" –> "Only for the retailer" –> "OK" –> Code Number "8500" pressing button "i".
With the buttons ▶ ◀ select "With" or "Without" (e.g. on replacement of the EPROM).

**4.3 White Balance**
Reach the "White balance" menu via "DIALOG CENTER" –> "OK" –> "SERVICE" –> "OK" –> "Only for the retailer" –> "OK" –> Code Number "8500" pressing button "i".
The values for "Green" and "Blue" can be adjusted with the ▶ ◀ buttons (see point 6 of alignment instructions).

**4.4 Cancelling EGP Flash**
Call up the menu "Cancel EGP flash" via "DIALOG CENTER" –> "OK" –> "SERVICE" –> "OK" –> "Only for the retailer" –> "OK" –> Code Number "8500" pressing button "i".
On pressing the "OK" button, the contents of the EGP Flash will be cancelled.

**4.5 Protection Circuit**
Reach the "Protection circuit" menu via "DIALOG CENTER" –> "OK" –> "SERVICE" –> "OK" –> "Only for the retailer" –> "OK" –> Code Number "8500" pressing button "i".
The protection circuit counter and operating hours meter can be read or reset to zero with every ATS reset.

**4.6 Switch on with**
The "Switch on with" menu can be reached via "DIALOG CENTER" –> "OK" –> "SERVICE" –> "OK" –> "Only for the retailer" –> "OK" –> Code Number "8500" pressing button "i".
With the buttons ▶ ◀ select "Test pattern" or "TV".

**4.7 Switching the Blue Screen Background On/Off**
Reach the "Blue Screen" menu via "DIALOG CENTER" –> "OK" –> "SERVICE" –> "OK" –> "Only for the retailer" –> "OK" –> Code Number "8500" pressing button "i".
With the buttons ▶ ◀ select "On" or "Off".

**4.8 Type of Picture Tube**
Reach the "Tube type" menu via "DIALOG CENTER" –> "OK" –> "SERVICE" –> "OK" –> "Only for the retailer" –> "OK" –> Code Number "8500" pressing button "i".
Set the type of picture tube (see point 7 of alignment instructions).

**4.9 Telepilot** (remote control handset)
Reach the "Telepilot" menu via "DIALOG CENTER" –> "OK" –> "SERVICE" –> "OK" –> "Only for the retailer" –> "OK" –> Code Number "8500" pressing button "i".
With the buttons ▶ ◀ select the Telepilot enclosed with the TV set.

**4.10 Terrestrial Tuner Module**
Reach the "Terr. tuner module" menu via "DIALOG CENTER" –> "OK" –> "SERVICE" –> "OK" –> "Only for the retailer" –> "OK" –> Code Number "8500" pressing button "i".
With the buttons ▶ ◀ select the built-in tuner.

**4.11 Geometry**
Reach the "Geometry" menu via "DIALOG CENTER" –> "OK" –> "SERVICE" –> "OK" –> "Only for the retailer" –> "OK" –> Code Number "8500" pressing button "i".
Adjust the picture geometry with the geometry test pattern (see point 10 of alignment instructions).

**4.12 Preprogramming the SAT Module** (only with SAT Module)
Reach the "SAT preprogramming" menu via "DIALOG CENTER" –> "OK" –> "SERVICE" –> "OK" –> "Only for the retailer" –> "OK" –> Code Number "8500" pressing button "i". Confirm with "OK" button.
In doing so, the SAT channel table stored in EPROM CIC80070 is read out on replacement of EEPROM CIC38091 (SAT Module) for example.

**4.13 Watchdog On/Off**
Call up the "Watchdog" menu with button "i" via "DIALOG CENTER" –> "OK" –> "SERVICE" –> "OK" –> "Only for the retailer" –> "OK" –> Code Number "8500".
The watchdog timer is reset at a cycle of 20s. If the pulse is missing during this period, a restart is released.
To switch off the watchdog timer:
- select "off" with the green remote control button or
- press and hold the P+ button and switch on with the mains button or
- press and hold the P- button and switch on with the mains button

# 5. Sound Settings

Call up the "SOUND SETTINGS" menu with the blue button –> "OK".

**5.1 Px Sound Level**
Volume offset on a per-programme basis to adjust the different volume levels of the individual transmitting stations.
The selected value is stored when leaving the menu.
(This menu option is not provided for AV programme positions).

**5.2 Balance**
Setting the volume level between the left and right channel.

**5.3 Equaliser**
Adjustment menu for 5-band equaliser.

**5.4 Width of Base**
Switchable between "normal" and "Wide".
(Not for Dolby Surround and Virtual Dolby)

**5.5 Sound and Headphone Sound Switch-Over**
Different types of sounds can be selected using the ▶ ◀ buttons dependent on the standard:
- "Mono": in the case of pure mono transmissions (indication not changeable)
- "Mono A / Mono B": in the case of 2-channel sound transmissions
- "Stereo / Mono": in the case of poor stereo sound quality, the sound can be switched over to mono
- "Nicam / FM"
- "Nicam A / Nicam B / FM"
- "Nicam Stereo / FM"

**5.6. Audio Output**
Can be set to "Solid" or "Adjustable" using the ▶ ◀ buttons.
(With 2-channel AF-module without Line Out this menu option is not available).

**5.7 Loudspeaker Output**
Can be set to "On" or "Off" using the ▶ ◀ buttons.
(With 2-channel AF-module without Line Out this menu option is not available).

# 6. Picture Settings

**6.1 Basic Adjustment**
Call up the "PICTURE SETTINGS" menu with the red button. Following the user guide it is possible to select the options: "Personal values", "During the day", "In the evening" and "Soft" (red button). The "Personal values" option allows to change the contrast, picture sharpness, noise reduction and white balance. The other options do not. Certain values are fixed in these cases.

Differences between these options and "Personal values":
- "During the day": arbitrary noise reduction and picture sharpness, maximum contrast and changed white balance
- "In the evening": arbitrary noise reduction and picture sharpness, reduced contrast and changed white balance
- "Soft": noise reduction at mid-value, minimum picture sharpness, reduced contrast and arbitrary white balance.

**6.2 Picture Sharpness**
With the red button –> "OK" call up the "PICTURE SETTINGS" menu and select "Sharpness".
With the ▶ ◀ buttons it is possible to set the picture sharpness in three steps for each individual programme position.

**6.3 Perfect Clear**
With the red button –> "OK" call up the "PICTURE SETTINGS" menu and select "Perfect Clear".
With the ▶ ◀ buttons this function can be switched "On" or "Off".

**6.4 Comb Filter**
With the red button –> "OK" call up the "PICTURE SETTINGS" menu and select "Comb filter".
With the ▶ ◀ buttons it is possible to choose between "Off" and "Automatic" on a per-programme basis.
(This menu option is not provided in VGA mode).

**6.5 Noise Reduction**
With the red button –> "OK" call up the "PICTURE SETTINGS" menu and select "Noise reduct.".
With the ▶ ◀ buttons it is possible to select the settings "Off", "Automatic", "Weak" and "High!" ("High!" cannot be stored).

**6.6 Line Flicker Reduction**
With the red button –> "OK" call up the "PICTURE SETTINGS" menu and select "Line flicker reduct.".
With the ▶ ◀ buttons it is possible to select the settings "Off", and "Automatic".
(This menu option is not provided in VGA mode).

# 7. Settings via the Programme Chart

Settings entered in the station identification for individual programme positions cause the TV set to switch to a forced operating mode. As a result, the automatic evaluation function is deactivated.

**7.1 Maximum Programme Number (reversing point)**
Press button "i" to call up the "TV-PROGRAMME-CHART" menu via "DIALOG CENTER" –> "OK" and activate the desired broadcast station with the "green button".
When entering the channel number "00" on any programme position, programme selection with the buttons ▲ ▼ is limited to the numbers lower than this position. If the reversing point is ≤ 10 only single-digit, ≤ 100 only dual-digit programme selection is possible.

**7.2 Forced Settings in Programme Mode**
Press button "i" to call up the "TV-PROGRAMME-CHART" menu via "DIALOG CENTER" –> "OK" and activate the desired broadcast station with the "blue button".
For activating the forced operating modes via the station ident, enter a comma in the 4th place from the left of the station identification. The 5th and 6th place contain the actual switching information (see table). The first three places of the station identification can be filled with any characters.

Example: XXX,MO only mono sound

The correct setting of the station ident shows only the first three places, the switching information is not displayed.

Indication: XXX

Possible switch settings:

| Station ident | | forcing |
|---|---|---|
| XXX,MO | -> | forced mono with stereo broadcasts |
| XXX,2T | -> | selection of 2nd sound carrier of two-channel broadcasts |
| XXX,AF | -> | AFC active |
| XXX,AV | -> | VCR time constant active |

## 8. Setting the Analog Values

The last entered analog values are stored automatically after about 10s or when changing to the AV positions or vice versa. When setting the following values below the minimum analog value as specified in the table below, the optimum value is initialised when switching the TV on or changing from RF –> AV.
The terrestrial programmes and the 4 AV positions have separate analog values.

| | Minimum Value | Optimum Value |
|---|---|---|
| Volume | – | 31 |
| Headphone volume | 10 | 31 |
| Brightness | 10 | 32 |
| Colour contrast | 10 | 32 |
| Contrast | 10 | 57 |

## Ausbauhinweise

**Bedieneinheit:**
Bedieneinheit durch Drücken der rechten oberen Seite ausklappen (Fig. 1).
Entriegeln Sie die zwei Bolzen an der unteren Seite der Bedieneinheit mit einem kleinen Schraubendreher (Fig. 2).
Die Bedieneinheit läßt sich nun so weit nach vorne herauziehen, daß die Leiterplatte vom Gehäuse der Bedieneinheit abgeschraubt werden kann (3 Schrauben).

## Disassembly Instructions

**Control Unit:**
Fold out the Control Unit by pressing on the upper ride side.
Release the two bolts at the bottom side of the Control Unit using a small screwdriver (Fig.2).
The Control Unit can now be pulled out to the front by an amount making it possible to screw the circuit board off the casing to the Control Unit (3 screws).

Fig. 1

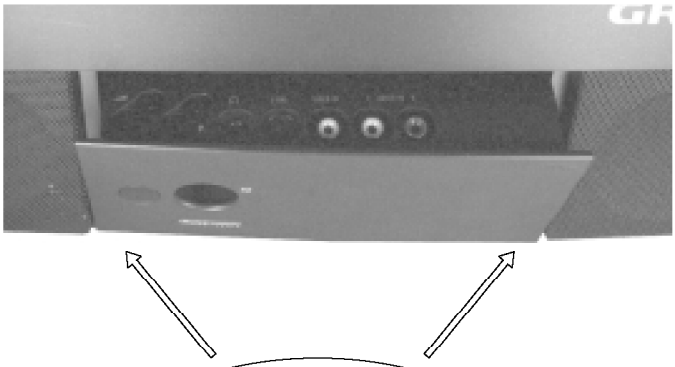
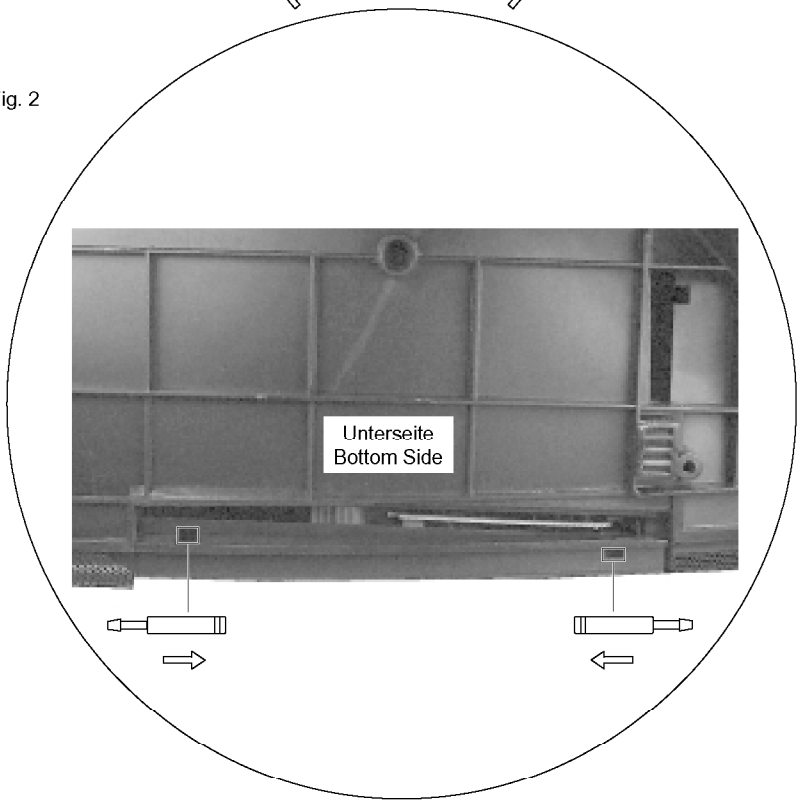


Fig. 2




**Subwoofer in Gehäuserückwand**
Da das Gehäuse des Subwoofers verklebt ist, kann dieser nur als Komplettteil mit der Gehäuserückwand ersetzt werden.

**Subwoofer on the back of the cabinet**
Since the casing of the subwoofer is stuck it can only be replaced together with the cabinet back panel.

# (D) Abgleich

Alle nicht beschriebenen Einstellelemente sind werkseitig abgeglichen und dürfen im Service-Fall nicht verstellt werden.

**Meßgeräte:** Zweikanal-Oszilloskop, Tastkopf 10:1, Digitalvoltmeter, Farbbildgenerator, Spektrumanalyser oder HF-Millivoltmeter

**Servicearbeiten nach Austausch bzw. Reparatur:**
- **Chassis:** Abgleich 1
- **Signal-Baustein:** Abgleich 2, 5, 5.1
- **Terrestrisch PIP/Signal-Baustein:** Abgleich 3, 6, 6.1
- **IC80095:** Abgleich 4, 7...11.1 und 15
- **Zeilenablenkung:** Abgleich 12...14

| Abgleich | Vorbereitung | Abgleichvorgang |
|---|---|---|
| 1. **+A** Spannung<br>**+B** Spannung<br>**+F** Spannung<br>**+H** Spannung<br>**+N** Spannung | **Nach jeder Reparatur und vor jedem Abgleich unbedingt kontrollieren und gegebenenfalls einstellen.**<br><br>Helligkeit: Minimum | Mit Regler **R61313** auf Wert nach Tabelle (Seite 3-3, 3-14) einstellen.<br>Mit Regler **R61031** auf 12V an Kontakt 36 der Feature-Box.<br>Mit Regler **R61041** auf 5V an Kontakt 9/10 der Feature-Box.<br>Mit Regler **R61001** auf 5V an Kontakt 8 der Feature-Box.<br>Mit Regler **R61051** auf 5V an Kontakt 32/33 der Feature-Box. |
| 2. Tuner-AGC | Spektrumanalyser oder HF-Millivoltmeter unsymmetrisch an Tunerkontakt 10 oder 11.<br>Senderbild ohne Tonträger oder Generator über die Antenne einspeisen, 70...80dBµV. | Mit RV-Regler **R32033** (Signalbaustein 29504 202 0100, 29504 262 0100) 102dBµV (360mV$_{ss}$) einstellen. |
| 3. Tuner AGC PIP | Spektrumanalyser oder HF-Millivoltmeter unsymmetrisch an Tunerkontakt 12 oder 13.<br>Senderbild ohne Tonträger oder Generator über die Antenne einspeisen, 70...80dBµV. | Mit RV-Regler **R32122** (Signalbaustein mit Splitter 29504 212 0200) 102dBµV (360mV$_{ss}$) einstellen. |
| 4. AFC-Referenz | Sender mit genormtem Kanalraster ohne Finetuning im Band 1 (Kanal 2...4) einspeisen.<br>Menü AFC-Referenz über Taste "**i**" (DIALOG CENTER) –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" –> "Nur für den Fachhändler" –> "OK" –> Kennzahl "8500" –> "AFC-Referenz" –> "OK" –> aufrufen (Menüführung). | Mit der Aktivierung der AFC-Referenz wird eine ZF-Richtspannung vom AFC-Ausgang des IC32010 an der Steckerleiste Kontakt 5 des Signalbausteins gemessen und als Vergleichswert beim Sendersuchlauf bzw. für die Videowiedergabe über den Antenneneingang (Senderkennung "AV") zur Nachregelung der Modulatordrift herangezogen (typ. 128±10). Einstellung mit OK aktivieren. |
| **Signalbaustein: (29504 202 0100, 29504 262 0100)**<br>5. PLL-Demodulatorkreis für Bildträger 38,9MHz | Sender mit genormtem Kanalraster, Band 3 mit dazugehöriger Norm einspeisen.<br>Voltmeter an Steckerleiste Kontakt 5 Signalbaustein. | **2,5V** mit **F32043** auf dem Signalbaustein einstellen. |
| 5.1 PLL-Demodulatorkreis für Bildträger 33,4MHz (Multi-ZF/IF) | Sender mit genormtem Kanalraster, Band 1 in Frankreich-Norm einspeisen.<br>Voltmeter an Steckerleiste Kontakt 5 Signalbaustein. | **2,5V** mit **R32057** auf dem Signalbaustein einstellen. |
| **Signalbaustein: (29504 212 0200)**<br>6. PLL-Demodulatorkreis für Bildträger 38,9MHz | Sender mit genormtem Kanalraster, Band 3 mit dazugehöriger Norm einspeisen.<br>Voltmeter an IC32110-22, genaue Betriebspannung UB ermitteln.<br>Voltmeter an IC32110 11. | Halbe Betriebsspannung **UB/2** mit **F32085** auf dem Signalbaustein mit Splitter einstellen. |
| 6.1 PLL-Demodulatorkreis für Bildträger 33,4MHz (Multi-ZF/IF) | Sender mit genormtem Kanalraster, Band 1 in Frankreich-Norm einspeisen.<br>Voltmeter an IC32110-22, genaue Betriebspannung UB ermitteln.<br>Voltmeter an IC32110-11. | Halbe Betriebsspannung **UB/2** mit **R32334** auf dem Signalbaustein mit Splitter einstellen. |

| Abgleich | Vorbereitung | Abgleichvorgang |
|---|---|---|
| 7. Weißwert | Grautreppe mit Burst einspeisen.<br>Weißbalance Mittenstellung.<br>Kontrast (◑) Maximum.<br>Farbkontrast (◉) Mittelwert.<br>Bildschirmhelligkeit (☼) Mittelwert.<br>"Perfect Clear" ausschalten (rote Taste –> BILD-EINSTELLUNGEN –> "OK" Persönliche Werte).<br><br>Menü Weißabgleich über Taste "**i**" (DIALOG CENTER) –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" –> "Nur für den Fachhändler" –> "OK" –> Kennzahl "8500" –> "Weißabgleich" –> "OK" –> aufrufen (Menüführung). | Mit den Tasten ◀ ▶ die Werte für **VG** und **VB** so einstellen, daß das Bild unbunt wird.<br><br>Die Taste "**?**" stellt die im **IC80070** gespeicherten Grundwerte ein.<br><br>Der eingestellte Wert wird mit OK gespeichert. |
| 8. Bildröhrentyp | Menü Bildröhrentyp über Taste "**i**" (DIALOG CENTER) –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" –> "Nur für den Fachhändler" –> "OK" –> Kennzahl "8500" –> "Bildröhrentyp" –> "OK" –> aufrufen (Menüführung). | Mit den Tasten ◀ ▶ Bildröhrentyp (T–Toshiba, P–Philips, V=Videocolour) einstellen.<br>Der eingestellte Wert wird beim Verlassen des Menüs gespeichert. |
| 9. Farbdeckung | Menü Farbdeckung über Taste "**i**" (DIALOG CENTER) –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" –> "Farbdeckung" –> "OK" –> aufrufen (Menüführung). | Mit den Tasten ◀ ▶ evtl. Laufzeitunterschiede zwischen Y und Chroma (programmplatzbezogen) optimieren.<br>Der eingestellte Wert wird beim Verlassen des Menüs gespeichert. |
| 10. PIP-Position | Senderbild einspeisen.<br>Fernbedientaste "PIP" gedrückt halten und mit dem Netzschalter einschalten. | Mit den Tasten ◀ ▶ und ▲ ▼ die PIP-Postion verändern und mit "OK" abspeichern. |
| 11. Bildgeometrie | Menü Geometrie über Taste "**i**" (DIALOG CENTER) –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" –> "Nur für den Fachhändler" –> "OK" –> Kennzahl "8500" –> "Geometrie" –> "OK" –> aufrufen (Menüführung).<br>Internes Testbild "Gitter" aufrufen oder Geometrietestbild einspeisen<br><br>**Achtung:** Der Abgleich "Line shift" beeinflußt die Zeilenphase. Vor dieser Einstellung die Bildbreite auf Minimum stellen und evtl. die Rasterlage mit dem Stecker "H-Shift" korrigieren.<br><br>**Reset:** Das Feld "Reset" enthält:<br>entweder die optimalen Bildgeometriedaten des Gerätes aus der Fertigung<br>- oder einen mittleren Datensatz aus dem ROM, wenn das Gerät mit dem Notdatensatz gestartet wurde.<br><br>Nach einem Fehlabgleich können Sie diese Grundwerte jederzeit wieder laden:<br>Menü Reset über Taste "**i**" (DIALOG CENTER) –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" –> "Nur für den Fachhändler" –> "OK" –> Kennzahl "8500" –> "Reset" –> "OK" –> aufrufen (Menüführung). | Nacheinander über die Menüführung die Geometriewerte der Vertikal- danach die Einstellung der Horizontalablenkung vornehmen.<br><br>Erst danach mit der Taste ◀ oder ▶ Bildinhalt mittig ins Raster stellen. Bildbreite wieder nach Testbild einstellen.<br><br>**Speichern:**<br>Dialogzeile End aufrufen und mit der Taste ◀ oder ▶ auf "With memory" stellen.<br>Taste **"OK"** speichert die Einstellung.<br><br>Die Bildgeometrie stellt sich nach jedem Einschalten auf den zuletzt abgespeicherten Wert ein. |
| 11.1 Bildgeometrie VGA | Gerät in Programmstellung "AV5" bzw. bei Geräten mit 2 AV-Buchsen in "AV4" schalten und Geometriebild über die VGA-Buchse einspeisen.<br>Menü Geometrie über Taste "**i**" (DIALOG CENTER) –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" –> "Nur für den Fachhändler" –> "OK" –> Kennzahl "8500" –> "Geometrie" –> "OK" –> aufrufen | Über die Menüführung Geometrie überprüfen und gegebenenfalls abgleichen.<br>Beim Speichern wird der VGA-Geometriedatensatz im IC80095 (Prozessor Modul) abgelegt. |
| 12. Abgleich der Brückenspule L53074 (Chassis) | Die Brückenspule L53074 wird in der Fertigung abgeglichen und sollte nicht verdreht werden.<br><br>Menü Geometrie über Taste "**i**" (DIALOG CENTER) –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "OK" –> "Nur für den Fachhändler" –> "OK" –> Kennzahl "8500" –> "Geometrie" –> "OK" –> aufrufen.<br>Die Bildbreite (Width) auf Minimum stellen.<br>Oszilloskop Kanal 1: Kollektor T53001.<br>Oszilloskop Kanal 2: Kathode D53072. | Gleiche Impulsbreite der Oszillogramme kontrollieren und gegebenenfalls mit Spule **L53074** abgleichen.<br>Bildbreite wieder nach Testbild einstellen. |

| Abgleich | Vorbereitung | Abgleichvorgang |
|---|---|---|
| 13. Zeilen-schärfe<br><br>(ohne Fokus-Block) | Konvergenztestbild einspeisen<br>Bildformat bei 16:9-Geräten auf 16:9 stellen<br>Kontrast (◑) Maximum<br>Helligkeit (☼) so einstellen, daß sich der schwarze Testbild-hintergrund gerade aufhellt. | Mit dem Schärferegler **FOC** auf der Bildrohrplatte die vertikalen Linien ca. 5cm vom rechten und linken Bildrand auf kleinste horizonzale Breite einstellen. |
| 13.1 Zeilen-schärfe<br><br>(mit Fokussierungs platte) | Konvergenztestbild einspeisen<br>Bildformat bei 16:9-Geräten auf 16:9 stellen<br>Kontrast (◑) Maximum<br>Helligkeit (☼) so einstellen, daß sich der schwarze Testbild-hintergrund gerade aufhellt. | Mit dem Schärferegler **FOC** auf der Bildrohrplatte die horizonzalen Linien in Bildmitte auf kleinste vertikale Breite einstellen.<br>Dann mit Schärferegler auf der Fokussierungsplatte die vertikalen Linien ca. 5cm vom rechten und linken Bildrand auf kleinste horizonzale Breite einstellen. |
| 13.2 Zeilen schärfe<br><br>(mit Fokus-Block) | Konvergenztestbild einspeisen<br>Bildformat bei 16:9-Geräten auf 16:9 stellen<br>Kontrast (◑) Maximum<br>Helligkeit (☼) so einstellen, daß sich der schwarze Testbild-hintergrund gerade aufhellt. | Mit dem Schärferegler **FOCUS 1** auf dem Fokus Block die horizonzalen Linien in Bildmitte auf kleinste vertikale Breite einstellen.<br>Die obere Randschärfe darf nicht schlechter als die Mittenschärfe erscheinen, ggf. mitteln.<br>Dann mit Fokusregler **FOCUS 2** auf dem Fokus-Block die vertikalen Linien ca. 5cm vom rechten und linken Bildrand auf kleinste horizontale Breite einstellen. |
| 14. Schirmgitter-spannung $U_{SG}$ | "Perfect Clear" ausschalten (rote Taste –> "BILD-EINSTELLUNGEN" –> OK persönliche Werte).<br>Schwarzbild einspeisen.<br>Bildschirmhelligkeit so einstellen, daß die Graufläche gerade dunkel wird.<br>Gerät auf AV-Betrieb schalten.<br>Hochohmiges Voltmeter mit ca. 220kΩ Widerstand in Serie an Testpunkt R, G, B.<br>Testpunkt mit höchstem Spannungwert ermitteln. | Mit dem Einstellregler **SG** (rechter Einsteller der Reglereinheit) auf der Bildrohrplatte die Spannung auf **162,5V±2,5V** abgleichen.<br>Bei Geräten mit Fokus-Block mit dem Regler "SCREEN" (unterer Regler auf Fokus-Block) |
| 15. Rauschreduktion programm-platzbezogen<br><br>Programme 1…199 | Mit der roten Taste das Menü "Rauschredukt." über "BILD-EINSTELLUNGEN" –> "OK" Persönliche Werte aufrufen (Menüführung).<br><br>Menü Rauschreduktion über Taste "i" (DIALOG CENTER) –> "OK" –> "SERVICE FÜR DEN FACHHANDEL" –> "Rauschredukt. " aufrufen (Menüführung). | Mit den Tasten ◄► ist die Rauschreduktion ("aus", "automatisch", "schwach" **programmplatzbezogen** veränderbar. Der eingestellte Wert wird beim Verlassen des Menüs gespeichert.<br><br>Mit den Tasten ◄► können Sie die Rauschreduktion für die **Programme 1…199 gleichzeitig** ein- bzw. ausschalten. |

# (GB) Alignment

All adjustment controls not mentioned in this description are pre-set at the factory and must not be re-adjusted in the case of repairs.

**Measuring instruments:** Dual-channel oscilloscope, 10:1 test probe, digital voltmeter, colour video generator, spectrum analyzer or RF millivoltmeter.

**Service works after replacement or repair of:**
- **Chassis:** Alignment 1
- **Signal Module:** Alignment 2, 5, 5.1
- **Terrestrial PIP/Signal Module:** Alignment 3, 6, 6.1
- **IC80095:** Alignment 4, 7...11.1 und 15
- **Horizontal Deflection:** Alignment 12...14

| Alignment | Preparations | Alignment Process |
|---|---|---|
| 1. **+A** voltage<br>**+B** voltage<br>**+F** voltage<br>**+H** voltage<br>**+N** voltage | **These voltages must strictly be checked and re-adjusted if necessary after every repair and before every alignment.**<br><br>Brightness: Minimum | Set the value as specified in the table (Page 3-3, 3-14) with **R61313**.<br>Set 12V on contact 36 of the Feature Box with **R61031**.<br>Set 5V on contact 9/10 of the Feature Box with **R61041** .<br>Set 5V on contact 8 of the Feature Box with **R61001**.<br>Set 5V on contact 32/33 of the Feature Box with **R61051** |
| 2. Tuner AGC | Connect the spectrum analyzer or RF millivoltmeter unsymmetrically to tuner contact 10 or 11.<br>Feed in a standard test pattern without sound carrier or a generator test pattern via the antenna, 70...80dBµV. | Set 102dBµV (360mV$_{pp}$) with RV adjustment control **R32033** (Signal Module 29504 202 0100, 29504 262 0100). |
| 3. Tuner AGC PIP | Connect the spectrum analyzer or RF millivoltmeter unsymmetrically to tuner contact 12 or 13.<br>Feed in a standard test pattern without sound carrier or a generator test pattern via the antenna, 70...80dBµV. | Set 102dBµV (360mV$_{pp}$) with RV adjustment control **R32122** (Signal Module with Splitter 29504 212 0200). |
| 4. AFC reference | Tune in to a station in Band I (channel 2...4) with standardised channel spacing without finetuning.<br>Call up the AFC reference menu with button "**i**" (DIALOG CENTER) –> "OK" –> "SERVICE" –> "OK" –> "Only for the retailer" –> "OK" –> Code Number "8500" –> "AFC reference" –> "OK" –> (menu guide). | On activation of AFC Reference a rectified IF-voltage from the AFC output of IC32010 is measured at the multipoint connector contact 5 of the Signal Module which is used on station search or for VCR-RF playback (station identification "AV") as a comparative value to readjust the modulator drift (typ. 128⊥10). Activate with "OK". |
| **Signal Module: (29504 202 0100, 29504 262 0100)**<br>5. PLL demodulator circuit for 38.9MHz vision carrier | Feed in a standard test pattern with standardised channel spacing, Band 3, in the appropriate TV standard.<br>Voltmeter to multipoint connector contact 5 of the Signal Module. | Set **2.5V** with **F32043** on the Signal Module. |
| 5.1 PLL demodulator circuit for 33.4MHz vision carrier (multi-IF) | Feed in a standard test pattern with standardised channel spacing, Band 1, French TV standard.<br>Voltmeter to multipoint connector contact 5 of the Signal Module. | Set **2.5V** with **R32057** on the Signal Module. |
| **Signal Module: (29504 212 0200)**<br>6. PLL demodulator for 38.9MHz vision carrier | Feed in a standard test pattern with standardised channel spacing, Band 3, in the appropriate TV standard.<br>Voltmeter to IC32110-22; determine the exact operating voltage UB.<br>Voltmeter to IC32110-11. | Set half the operating voltage **UB/2** with **F32085** on the Signal Module with Splitter. |
| 6.1 PLL demodulator for 33.4MHz vision carrier (multi-IF) | Feed in a standard test pattern with standardised channel spacing, Band 1, French TV standard.<br>Voltmeter to IC32110-22; determine the exact operating voltage UB.<br>Voltmeter to IC32110-11. | Set half the operating voltage **UB/2** with **R32334** on the Signal Module with Splitter. |

| Alignment | Preparations | Alignment Process |
|---|---|---|
| 7. White balance | Feed in a grey scale black/white test pattern with burst.<br>Set white balance to mid-position.<br>Contrast (◑) to maximum.<br>Colour contrast (◕) to mid-position.<br>Screen brightness (☼) to mid-position.<br>Switch off "Perfect Clear" (red key –> "PICTURE SETTINGS" –> "OK" –> Personal values).<br><br>Call up the white balance menu with button "**i**" (DIALOG CENTER) –> "OK" –> "SERVICE" –> "OK" –> "Only for the retailer" –> "OK" –> Code Number "8500" –> "White balance" –>"OK" –> (menu guide). | With the ◀ ▶ buttons set the values for **VG** and **VB** so that the picture becomes achromatic.<br><br>Use the "**?**" key to call up the default values stored in **IC80070**.<br><br>The setting is stored when pressing the "**OK**" button. |
| 8. Type of picture tube | Call up the tube type menu with button "**i**" (DIALOG CENTER) –> "OK" –> "SERVICE" –> "OK" –> "Only for the retailer" –> "OK" –> Code Number "8500" –> "Tube type" –> "OK" –> (menu guide). | With the ◀ ▶ buttons select the type of picture tube (T = Toshiba, P = Philips).<br>The selected type is stored when terminating the menu. |
| 9. Colour match | Call up the colour match menu with button "**i**" (DIALOG CENTER) –> "OK" –> "SERVICE" –> "OK" –> "Colour match" –> "OK" –> (menu guide). | With the ◀ ▶ buttons optimize differences between Y and chroma delay (on per-programme basis).<br>The setting is stored when terminating the menu. |
| 10. PIP position | Feed in a standard test pattern.<br>Press and hold the "PIP" button on the remote control while switching on with the mains button. | Change the PIP position with the ◀ ▶ and ▲ ▼ buttons and store with "**OK**". |
| 11. Picture geometry | Call up the geometry menu with button "**i**" (DIALOG CENTER) –> "OK" –> "SERVICE" –> "OK" –> "Only for the retailer " –> "OK" –> Code Number "8500"–> "Geometry" –> "OK" –> (menu guide).<br>Call up the internal "Lattice" test pattern or feed in the geometry test pattern.<br><br>**Attention:** The "Line shift" alignment influences the line phase. Before this adjustment, set the horizontal amplitude to minimum and if necessary correct the raster position with the "H-Shift" plug.<br><br>**Reset:**<br>The "Reset" menu contains:<br>- either the optimum picture geometry data entered in the factory<br>- or the average data set read out from the ROM if the TV has been switched on with the emergency data set.<br><br>On misalignment, these basic values can be re-loaded at any time as follows:<br>Call up the reset menu with button "**i**" (DIALOG CENTER)–> "OK" –> "SERVICE" –> "OK" –> "Only for the retailer " –> "OK" –> Code Number "8500"–> "Reset" –> "OK" –> (menu guide). | Via the menu guide, select the geometry values for the vertical deflection first, then set the values for the horizontal deflection.<br><br>Subsequently, move the picture into the centre of the raster using the ◀ or ▶ button. Re-adjust the horizontal amplitude according to the test pattern.<br><br>**Store:**<br>Call up the dialogue line "End" and change to "With memory" using the ◀ or ▶ button .<br>Store the setting with the **"OK"** button.<br><br>Whenever the TV is switched on the picture geometry is set to the value stored last. |
| 11.1 VGA picture geometry | Switch the TV to "AV5" programme position or TV models with two AV sockets to "AV4" and feed in a geometry test pattern via the VGA socket.<br>Call up the geometry menu with button "**i**" (DIALOG CENTER) –> "OK" –> "SERVICE" –> "OK" –> "Only for the retailer " –> "OK" –> Code Number "8500"–> "Geometry" –> "OK". | Check the geometry via the menu guide and correct it if necessary.<br>When storing, the VGA geometry data set is entered into IC80095 (processor module). |
| 12. Adjustment of the bridge coil L53074 (chassis) | The bridge coil L53074 is adjusted at the factory and should not be readjusted any more.<br><br>Call up the geometry menu with button "**i**" (DIALOG CENTER) –> "OK" –> "SERVICE" –> "OK" –> "Only for the retailer " –> "OK" –> Code Number "8500"–> "Geometry" –> "OK".<br>Set the horizontal amplitude (width) to minimum.<br>Oscilloscope channel 1: collector T53001.<br>Oscilloscope channel 2: cathode D53072. | Check the pulse width of the oscillograms and correct it if necessary with coil **L53074** so that it is the same for both oscillograms. |

| Alignment | Preparations | Alignment Process |
|---|---|---|
| 13. Line sharpness<br><br>(without focus block) | Select the convergence test pattern.<br>Select the 16:9 aspect ratio for 16:9 TV models.<br>Contrast (◑) to maximum.<br>Set the brightness (☼) so that the black background of the test pattern is just brightening. | With the focus control **FOC** on the picture tube panel adjust the vertical lines about 5cm from the right and left picture edge for minimum horizontal width. |
| 13.1 Line sharpness<br><br>(with focussing board) | Select the convergence test pattern.<br>Select the 16:9 aspect ratio for 16:9 TV models.<br>Contrast (◑) to maximum.<br>Set the brightness (☼) so that the black background of the test pattern is just brightening. | With the focus control **FOC** on the picture tube panel adjust the horizontal lines in the middle of the picture for minimum vertical width.<br>With the focus control on the focussing board adjust the vertical lines about 5cm from the right and left picture edge for minimum horizontal width. |
| 13.2 Line sharpness<br><br>(with focus block) | Select the convergence test pattern.<br>Select the 16:9 aspect ratio for 16:9 TV models.<br>Contrast (◑) to maximum.<br>Set the brightness (☼) so that the black background of the test pattern is just brightening. | With the focus control **FOCUS 1** on the focus block, adjust the horizontal lines in the middle of the picture for minimum vertical width.<br>The sharpness in the upper edge must not be worse than in the middle of the picture. Take the average if necessary.<br>Subsequently, with the focus control **FOCUS 2** on the focus block, adjust the vertical lines about 5cm from the right and left picture edge for minimum horizontal brightness. |
| 14. Screen grid voltage $U_{SG}$ | Switch off "Perfect Clear" (red key –> "PICTURE SETTINGS" –> "OK" Personal values).<br>Feed in a black raster.<br>Adjust the screen brightness so that the grey area just becomes dark.<br>Switch the TV receiver to AV mode.<br>Connect the high-resistance voltmeter with ca. 220kΩ serial resistance to R, G, B test points.<br>Determine the test point with the highest voltage level. | With adjustment control **SG** (right control of the regulating section) on the picture tube panel set the voltage to **162.5V±2.5V**.<br>For TV models with focus block use adjustment control "SCREEN" (lower control on the focus block). |
| 15. Noise reduction on per-programme basis | Call up the "Noise reduct." menu with the red key via "PICTURE SETTINGS" –> "OK" Personal values (menu guide). | With the ◀ ▶ buttons the noise reduction ("Off", "Auto", "Low") can be changed for **each individual programme**.<br>The setting is stored when terminating the menu. |
| Programmes 1...199 | Call up the noise reduction menu with button "**i**" (DIALOG CENTER) > "OK" > "SERVICE" > "Noise reduct." (menu guide). | With the ◀ ▶ buttons the noise reduction can be switched on or off **simultaneously** for **all programmes 1...199**. |

# Platinenabbildungen und Schaltpläne / Layout of the PCBs and Circuit Diagrams

## Chassisplatte

**Koordinaten für die Bauteile der Lötseite (Unterseite)**

## Chassis Board

**Coordinates of the Components on the Solder Side (Bottom Side)**

| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| CBR100 | 210 | 133 |
| CBR101 | 104 | 201 |
| CBR102 | 99 | 149 |
| CBR103 | 150 | 228 |
| CBR104 | 84 | 193 |
| CBR105 | 65 | 223 |
| CBR106 | 153 | 149 |
| CBR107 | 124 | 253 |
| CBR108 | 28 | 211 |
| CBR109 | 133 | 253 |
| CBR110 | 62 | 245 |
| CBR111 | 8 | 198 |
| CBR113 | 89 | 201 |
| CBR114 | 146 | 161 |
| CBR115 | 79 | 148 |
| CBR116 | 133 | 244 |
| CBR117 | 79 | 150 |
| CBR118 | 132 | 188 |
| CBR119 | 133 | 249 |
| CBR120 | 80 | 175 |
| CBR121 | 80 | 177 |
| CBR122 | 123 | 131 |
| CBR123 | 153 | 184 |
| CBR124 | 158 | 181 |
| CBR125 | 120 | 193 |
| CBR127 | 83 | 212 |
| CBR128 | 79 | 145 |
| CBR129 | 48 | 102 |
| CBR130 | 98 | 201 |
| CBR131 | 113 | 212 |
| CBR132 | 35 | 200 |
| CBR134 | 184 | 91 |
| CBR135 | 40 | 98 |
| CBR136 | 76 | 202 |
| CBR137 | 77 | 196 |
| CC21203 | 328 | 163 |
| CC21206 | 324 | 149 |
| CC21221 | 192 | 164 |
| CC21231 | 200 | 166 |
| CC21233 | 354 | 133 |
| CC32301 | 53 | 172 |
| CC32321 | 54 | 149 |
| CC34502 | 58 | 115 |
| CC34503 | 61 | 115 |
| CC34504 | 64 | 115 |
| CC34507 | 68 | 127 |
| CC34517 | 81 | 90 |
| CC34518 | 74 | 115 |
| CC34519 | 72 | 115 |
| CC34520 | 69 | 115 |
| CC34521 | 78 | 89 |
| CC34522 | 72 | 89 |
| CC34523 | 62 | 88 |
| CC34524 | 107 | 120 |
| CC34525 | 103 | 120 |
| CC34526 | 110 | 120 |
| CC34541 | 78 | 125 |
| CC34542 | 81 | 125 |
| CC34543 | 84 | 125 |
| CC43002 | 40 | 226 |
| CC43003 | 87 | 229 |
| CC43007 | 44 | 226 |
| CC43008 | 84 | 229 |
| CC43013 | 71 | 231 |
| CC43018 | 76 | 232 |
| CC43022 | 29 | 220 |
| CC43023 | 27 | 231 |
| CC43025 | 136 | 251 |
| CC43027 | 20 | 220 |
| CC43028 | 24 | 231 |
| CC43033 | 18 | 231 |
| CC43038 | 22 | 246 |
| CC43066 | 121 | 208 |
| CC43079 | 93 | 176 |
| CC43526 | 99 | 226 |
| CC43538 | 113 | 206 |
| CC43551 | 135 | 228 |
| CC43553 | 76 | 215 |
| CC43554 | 118 | 217 |
| CC43556 | 85 | 163 |
| CC43567 | 71 | 246 |
| CC43572 | 90 | 189 |
| CC43574 | 115 | 202 |
| CC43576 | 103 | 172 |
| CC43577 | 99 | 172 |
| CC43587 | 118 | 245 |
| CC43615 | 80 | 172 |
| CC43617 | 109 | 177 |
| CC43618 | 106 | 173 |
| CC43651 | 135 | 226 |
| CC43653 | 150 | 245 |
| CC43667 | 99 | 210 |
| CC43672 | 108 | 210 |
| CC43674 | 95 | 201 |
| CC43675 | 117 | 186 |
| CC43676 | 105 | 210 |
| CC46031 | 96 | 114 |
| CC46032 | 102 | 114 |
| CC46033 | 110 | 111 |
| CC50001 | 194 | 184 |
| CC50002 | 195 | 177 |
| CC50004 | 160 | 184 |
| CC50011 | 194 | 192 |
| CC50013 | 181 | 176 |
| CC50023 | 178 | 188 |
| CC50024 | 196 | 170 |
| CC60014 | 288 | 10 |
| CC60015 | 291 | 10 |
| CC60016 | 301 | 13 |
| CC60019 | 216 | 70 |
| CC60021 | 222 | 74 |
| CC60032 | 284 | 10 |
| CC60046 | 285 | 28 |
| CC61002 | 192 | 30 |
| CC61003 | 192 | 25 |
| CC61006 | 161 | 56 |
| CC61007 | 179 | 66 |
| CC61016 | 233 | 104 |
| CC61021 | 32 | 81 |
| CC61022 | 34 | 76 |
| CC61023 | 200 | 106 |
| CC61024 | 195 | 100 |
| CC61028 | 196 | 114 |
| CC61031 | 200 | 114 |
| CC61038 | 222 | 124 |
| CC61041 | 219 | 116 |
| CC61051 | 182 | 95 |
| CC61058 | 186 | 95 |
| CC61311 | 221 | 8 |
| CC61312 | 232 | 15 |
| CC65506 | 59 | 52 |
| CC65507 | 59 | 61 |
| CC65515 | 77 | 67 |
| CC65517 | 70 | 56 |
| CC65518 | 68 | 52 |
| CC65519 | 78 | 56 |
| CC65527 | 78 | 44 |
| CC65528 | 83 | 63 |
| CC65531 | 58 | 67 |
| CC65532 | 83 | 67 |
| CC70501 | 154 | 130 |
| CC70502 | 140 | 182 |
| CC70503 | 146 | 188 |
| CC70506 | 152 | 136 |
| CC70507 | 155 | 136 |
| CC70508 | 152 | 195 |
| CC70512 | 145 | 143 |
| CC70513 | 145 | 148 |
| CC70518 | 126 | 133 |
| CC70528 | 149 | 53 |
| CD21203 | 321 | 134 |
| CD21206 | 332 | 175 |
| CD21221 | 184 | 159 |
| CD21222 | 184 | 166 |
| CD21231 | 206 | 180 |
| CD21232 | 206 | 172 |
| CD34513 | 104 | 97 |
| CD34517 | 86 | 94 |
| CD43026 | 163 | 250 |
| CD43541 | 125 | 215 |
| CD43542 | 126 | 196 |
| CD43651 | 135 | 222 |
| CD52003 | 191 | 234 |
| CD53019 | 338 | 228 |
| CD55003 | 228 | 189 |
| CD55004 | 222 | 201 |
| CD58001 | 210 | 207 |
| CD58004 | 211 | 202 |
| CD58007 | 221 | 175 |
| CD58011 | 228 | 174 |
| CD58012 | 222 | 168 |
| CD58021 | 210 | 191 |
| CD58022 | 206 | 185 |
| CD65506 | 48 | 53 |
| CD65519 | 63 | 57 |
| CD65528 | 67 | 57 |
| CD70501 | 159 | 217 |
| CD70506 | 157 | 161 |
| CD70507 | 163 | 153 |
| CD70517 | 158 | 134 |
| CD70519 | 142 | 100 |
| CD70521 | 138 | 47 |
| CD70522 | 134 | 47 |
| CD70523 | 150 | 61 |
| CD70553 | 166 | 138 |
| CIC43550 | 137 | 236 |
| CIC43650 | 154 | 236 |
| CL34521 | 76 | 94 |
| CL34522 | 72 | 99 |
| CL34523 | 67 | 94 |
| CR21201 | 182 | 135 |
| CR21202 | 324 | 140 |
| CR21203 | 323 | 170 |
| CR21206 | 326 | 173 |
| CR21222 | 188 | 165 |
| CR21223 | 194 | 164 |
| CR21224 | 197 | 164 |
| CR21226 | 181 | 159 |
| CR21233 | 354 | 130 |
| CR21234 | 342 | 130 |
| CR32303 | 57 | 149 |
| CR32321 | 42 | 155 |
| CR32381 | 73 | 155 |
| CR34509 | 52 | 103 |
| CR34510 | 52 | 101 |
| CR34511 | 98 | 99 |
| CR34512 | 93 | 104 |
| CR34513 | 98 | 103 |
| CR34514 | 108 | 103 |
| CR34516 | 108 | 98 |
| CR34517 | 79 | 99 |
| CR34518 | 81 | 115 |
| CR34519 | 79 | 115 |
| CR34520 | 81 | 87 |
| CR34521 | 76 | 99 |
| CR34522 | 72 | 94 |
| CR34523 | 67 | 99 |
| CR34524 | 100 | 120 |
| CR34525 | 87 | 113 |
| CR34526 | 87 | 116 |
| CR34541 | 80 | 135 |
| CR34542 | 80 | 132 |
| CR34543 | 80 | 129 |
| CR34544 | 86 | 125 |
| CR40501 | 18 | 96 |
| CR40502 | 18 | 88 |
| CR43002 | 49 | 245 |
| CR43003 | 90 | 229 |
| CR43004 | 38 | 245 |
| CR43005 | 32 | 245 |
| CR43008 | 81 | 229 |
| CR43009 | 51 | 245 |
| CR43010 | 153 | 251 |
| CR43013 | 71 | 234 |
| CR43014 | 160 | 251 |
| CR43018 | 78 | 232 |
| CR43019 | 155 | 251 |
| CR43023 | 30 | 231 |
| CR43024 | 159 | 228 |
| CR43025 | 139 | 251 |
| CR43028 | 21 | 229 |
| CR43033 | 16 | 242 |
| CR43038 | 22 | 243 |
| CR43042 | 35 | 230 |
| CR43043 | 156 | 245 |
| CR43046 | 158 | 251 |
| CR43047 | 153 | 245 |
| CR43048 | 115 | 245 |
| CR43051 | 93 | 229 |
| CR43053 | 91 | 244 |
| CR43056 | 98 | 244 |
| CR43057 | 105 | 244 |
| CR43058 | 111 | 244 |
| CR43066 | 117 | 191 |
| CR43067 | 99 | 223 |
| CR43072 | 43 | 245 |
| CR43075 | 139 | 219 |
| CR43078 | 59 | 235 |
| CR43079 | 93 | 180 |
| CR43080 | 129 | 176 |
| CR43081 | 36 | 211 |
| CR43083 | 33 | 211 |
| CR43526 | 105 | 225 |
| CR43536 | 102 | 225 |
| CR43537 | 117 | 212 |
| CR43538 | 119 | 212 |
| CR43541 | 133 | 198 |
| CR43542 | 138 | 200 |
| CR43543 | 130 | 221 |
| CR43553 | 92 | 219 |
| CR43554 | 113 | 217 |
| CR43556 | 80 | 169 |
| CR43568 | 63 | 241 |
| CR43569 | 66 | 242 |
| CR43572 | 99 | 177 |
| CR43573 | 96 | 173 |
| CR43574 | 96 | 177 |
| CR43576 | 101 | 177 |
| CR43577 | 112 | 177 |
| CR43578 | 104 | 177 |
| CR43582 | 122 | 241 |
| CR43583 | 121 | 232 |
| CR43589 | 96 | 189 |
| CR43590 | 93 | 189 |
| CR43591 | 138 | 195 |
| CR43592 | 98 | 189 |
| CR43593 | 97 | 210 |
| CR43594 | 101 | 189 |
| CR43596 | 103 | 189 |
| CR43597 | 106 | 189 |
| CR43598 | 108 | 189 |
| CR43599 | 111 | 189 |
| CR43615 | 98 | 160 |
| CR43617 | 110 | 168 |
| CR43618 | 106 | 177 |
| CR43651 | 126 | 225 |
| CR43653 | 150 | 251 |
| CR43675 | 119 | 186 |
| CR43676 | 82 | 153 |
| CR43677 | 76 | 210 |
| CR43678 | 76 | 212 |
| CR43679 | 102 | 210 |
| CR46031 | 93 | 114 |
| CR46032 | 99 | 114 |
| CR46033 | 107 | 111 |
| CR50001 | 188 | 171 |
| CR50002 | 195 | 174 |
| CR50003 | 160 | 178 |
| CR50004 | 163 | 184 |
| CR55003 | 231 | 182 |
| CR55006 | 235 | 214 |
| CR55007 | 232 | 192 |
| CR55011 | 234 | 195 |
| CR55016 | 214 | 206 |
| CR58004 | 217 | 197 |
| CR58007 | 215 | 171 |
| CR58011 | 236 | 177 |
| CR58012 | 236 | 173 |
| CR58013 | 219 | 183 |
| CR58014 | 225 | 185 |
| CR58015 | 220 | 194 |
| CR58021 | 210 | 180 |
| CR58022 | 206 | 175 |
| CR60013 | 274 | 15 |
| CR60015 | 294 | 10 |
| CR60016 | 304 | 13 |
| CR60031 | 269 | 19 |
| CR60046 | 269 | 10 |
| CR61003 | 181 | 26 |
| CR61004 | 196 | 15 |
| CR61007 | 176 | 67 |
| CR61008 | 182 | 70 |
| CR61009 | 175 | 63 |
| CR61021 | 34 | 91 |
| CR61022 | 35 | 81 |
| CR61029 | 166 | 110 |
| CR61032 | 170 | 99 |
| CR61039 | 205 | 133 |
| CR61042 | 227 | 123 |
| CR61052 | 170 | 73 |
| CR61059 | 171 | 86 |
| CR61301 | 232 | 18 |
| CR61302 | 240 | 18 |
| CR61303 | 239 | 10 |
| CR61304 | 242 | 10 |
| CR61306 | 246 | 7 |
| CR61311 | 232 | 12 |
| CR65500 | 101 | 135 |
| CR65501 | 40 | 64 |
| CR65502 | 38 | 58 |
| CR65503 | 57 | 61 |
| CR65504 | 53 | 61 |
| CR65505 | 43 | 58 |
| CR65506 | 57 | 52 |
| CR65507 | 59 | 56 |
| CR65508 | 57 | 56 |
| CR65509 | 41 | 58 |
| CR65510 | 49 | 58 |
| CR65511 | 70 | 61 |
| CR65515 | 74 | 67 |
| CR65516 | 73 | 56 |
| CR65517 | 81 | 56 |
| CR65518 | 73 | 44 |
| CR65519 | 75 | 56 |
| CR65521 | 65 | 52 |
| CR65526 | 63 | 52 |
| CR65527 | 75 | 44 |
| CR65528 | 80 | 67 |
| CR65529 | 80 | 63 |
| CR65536 | 80 | 50 |
| CR70501 | 146 | 168 |
| CR70502 | 183 | 170 |
| CR70504 | 159 | 214 |
| CR70506 | 158 | 152 |
| CR70507 | 160 | 152 |
| CR70508 | 156 | 152 |
| CR70509 | 138 | 190 |
| CR70510 | 138 | 193 |
| CR70512 | 158 | 141 |
| CR70513 | 161 | 143 |
| CR70516 | 156 | 141 |
| CR70518 | 129 | 133 |
| CR70519 | 139 | 103 |
| CR70522 | 141 | 50 |
| CR70523 | 152 | 47 |
| CR70524 | 147 | 61 |
| CR70526 | 142 | 58 |
| CR70527 | 149 | 47 |
| CR70528 | 152 | 53 |
| CR70551 | 169 | 143 |
| CR70552 | 156 | 146 |
| CR70553 | 166 | 143 |
| CT21221 | 188 | 159 |
| CT21233 | 349 | 122 |
| CT32305 | 61 | 151 |
| CT32320 | 56 | 166 |
| CT43525 | 108 | 226 |
| CT43535 | 108 | 220 |
| CT43565 | 65 | 231 |
| CT43580 | 122 | 246 |
| CT43590 | 127 | 187 |
| CT58012 | 211 | 197 |
| CT61316 | 253 | 10 |
| CT65501 | 105 | 136 |
| CT65503 | 44 | 64 |
| CT65504 | 42 | 51 |
| CT65505 | 49 | 64 |
| CT65506 | 53 | 53 |
| CT65525 | 74 | 50 |

# Chassisplatte

## Koordinaten für die Bauteile der Bestückungsseite (Oberseite)

| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| BR100 | 155 | 98 |
| BR101 | 128 | 128 |
| BR102 | 131 | 131 |
| BR103 | 136 | 86 |
| BR104 | 52 | 211 |
| BR105 | 123 | 169 |
| BR106 | 100 | 196 |
| BR107 | 136 | 220 |
| BR108 | 36 | 129 |
| BR109 | 136 | 131 |
| BR110 | 125 | 169 |
| BR111 | 38 | 116 |
| BR112 | 38 | 114 |
| BR113 | 149 | 108 |
| BR114 | 270 | 20 |
| BR115 | 284 | 88 |
| BR116 | 294 | 166 |
| BR117 | 187 | 233 |
| BR118 | 274 | 15 |
| BR119 | 279 | 98 |
| BR120 | 289 | 45 |
| BR121 | 292 | 144 |
| BR122 | 194 | 149 |
| BR123 | 188 | 56 |
| BR124 | 76 | 16 |
| BR125 | 191 | 21 |
| BR126 | 197 | 114 |
| BR127 | 185 | 134 |
| BR128 | 166 | 63 |
| BR129 | 200 | 141 |
| BR130 | 304 | 175 |
| BR131 | 231 | 147 |
| BR132 | 213 | 228 |
| BR133 | 77 | 215 |
| BR134 | 118 | 213 |
| BR135 | 141 | 235 |
| BR136 | 154 | 150 |
| BR137 | 131 | 174 |
| BR138 | 48 | 76 |
| BR139 | 30 | 153 |
| BR140 | 188 | 111 |
| BR141 | 105 | 109 |
| BR142 | 54 | 57 |
| BR143 | 30 | 159 |
| BR144 | 233 | 58 |
| BR145 | 137 | 75 |
| BR146 | 58 | 168 |
| BR147 | 101 | 170 |
| BR148 | 105 | 22 |
| BR149 | 65 | 130 |
| BR150 | 100 | 200 |
| BR151 | 26 | 120 |
| BR152 | 25 | 111 |
| BR153 | 192 | 216 |
| BR154 | 93 | 81 |
| BR155 | 64 | 250 |
| BR156 | 136 | 105 |
| BR157 | 229 | 190 |
| BR158 | 219 | 242 |
| BR159 | 169 | 180 |
| BR160 | 301 | 161 |
| BR161 | 203 | 155 |
| BR162 | 189 | 158 |
| BR163 | 155 | 50 |
| BR164 | 314 | 144 |
| BR165 | 177 | 192 |
| BR166 | 246 | 47 |
| BR167 | 101 | 21 |
| BR168 | 144 | 16 |
| BR169 | 98 | 21 |
| BR170 | 151 | 18 |
| BR171 | 144 | 69 |
| BR172 | 48 | 95 |
| BR173 | 53 | 110 |
| BR174 | 48 | 90 |
| BR175 | 48 | 93 |
| BR176 | 52 | 158 |
| BR177 | 125 | 120 |
| BR178 | 51 | 32 |
| BR179 | 106 | 221 |
| BR180 | 83 | 164 |
| BR181 | 83 | 161 |
| BR182 | 82 | 158 |
| BR183 | 134 | 209 |
| BR184 | 56 | 224 |
| BR185 | 59 | 224 |
| BR186 | 154 | 171 |
| BR187 | 38 | 197 |
| BR188 | 36 | 197 |
| BR189 | 157 | 101 |
| BR190 | 82 | 191 |
| BR191 | 28 | 107 |
| BR192 | 81 | 133 |
| BR193 | 101 | 80 |
| BR194 | 98 | 80 |
| BR195 | 122 | 231 |
| BR196 | 138 | 210 |
| BR197 | 129 | 156 |
| BR198 | 133 | 125 |
| BR199 | 61 | 226 |
| BR200 | 151 | 95 |
| BR201 | 128 | 247 |
| BR202 | 133 | 140 |
| BR203 | 102 | 151 |
| BR204 | 247 | 166 |
| BR205 | 206 | 164 |
| BR206 | 165 | 172 |
| BR207 | 165 | 175 |
| BR208 | 177 | 218 |
| BR209 | 266 | 161 |
| BR210 | 206 | 150 |
| BR211 | 210 | 127 |
| BR212 | 353 | 158 |
| BR213 | 174 | 191 |
| BR214 | 153 | 224 |
| BR215 | 290 | 127 |
| BR216 | 194 | 120 |
| BR217 | 173 | 150 |
| BR218 | 175 | 170 |
| BR219 | 177 | 173 |
| BR220 | 159 | 206 |
| BR221 | 197 | 100 |
| BR222 | 254 | 107 |
| BR223 | 192 | 123 |
| BR224 | 160 | 72 |
| BR225 | 175 | 151 |
| BR226 | 169 | 133 |
| BR227 | 32 | 165 |
| BR228 | 138 | 224 |
| BR229 | 31 | 143 |
| BR230 | 31 | 138 |
| BR231 | 129 | 150 |
| BR232 | 135 | 83 |
| BR233 | 31 | 140 |
| BR234 | 30 | 162 |
| BR235 | 153 | 245 |
| BR236 | 159 | 191 |
| BR237 | 123 | 72 |
| BR238 | 96 | 80 |
| BR239 | 334 | 237 |
| BR240 | 149 | 21 |
| BR243 | 109 | 62 |
| BR244 | 335 | 61 |
| BR245 | 46 | 30 |
| BR246 | 169 | 15 |
| BR247 | 43 | 88 |
| BR248 | 43 | 85 |
| BR249 | 22 | 58 |
| BR250 | 42 | 29 |
| BR251 | 36 | 80 |
| BR252 | 286 | 160 |
| BR253 | 35 | 30 |
| BR254 | 206 | 180 |
| BR255 | 23 | 179 |
| BR256 | 69 | 225 |
| BR257 | 8 | 234 |
| BR21102 | 355 | 158 |
| BR21202 | 304 | 131 |
| BR60014 | 279 | 18 |
| BR60028 | 260 | 53 |
| BR61062 | 238 | 151 |
| BR61067 | 245 | 153 |
| BU01 | 69 | 173 |
| BU02 | 46 | 173 |
| C21202 | 324 | 131 |
| C21212 | 335 | 162 |
| C21231 | 300 | 137 |
| C21232 | 345 | 174 |
| C34501 | 82 | 96 |
| C34506 | 67 | 124 |
| C34509 | 95 | 93 |
| C34510 | 89 | 96 |
| C34511 | 96 | 104 |
| C34521 | 61 | 99 |
| C34522 | 61 | 95 |
| C34523 | 61 | 91 |
| C43012 | 26 | 223 |
| C43017 | 34 | 223 |
| C43032 | 10 | 222 |
| C43037 | 15 | 228 |
| C43081 | 31 | 200 |
| C43083 | 23 | 199 |
| C43566 | 69 | 240 |
| C43573 | 115 | 200 |
| C43586 | 99 | 229 |
| C43673 | 85 | 200 |
| C50012 | 198 | 189 |
| C50014 | 196 | 202 |
| C50026 | 200 | 173 |
| C50027 | 171 | 204 |
| C52001 | 205 | 211 |
| C52002 | 168 | 231 |
| C52003 | 174 | 225 |
| C52004 | 175 | 238 |
| C53006 | 283 | 210 |
| C53007 | 265 | 210 |
| C53009 | 291 | 210 |
| C53011 | 308 | 242 |
| C53012 | 251 | 230 |
| C53013 | 235 | 220 |
| C53016 | 326 | 249 |
| C53017 | 353 | 240 |
| C53018 | 338 | 236 |
| C53019 | 344 | 236 |
| C53071 | 271 | 228 |
| C53072 | 244 | 228 |
| C53073 | 255 | 204 |
| C54001 | 351 | 201 |
| C54002 | 353 | 180 |
| C54011 | 316 | 163 |
| C54012 | 314 | 147 |
| C54021 | 304 | 153 |
| C54022 | 297 | 150 |
| C55003 | 228 | 196 |
| C55004 | 218 | 204 |
| C55011 | 234 | 183 |
| C55012 | 238 | 189 |
| C55013 | 235 | 197 |
| C58001 | 215 | 197 |
| C58004 | 219 | 167 |
| C58011 | 231 | 174 |
| C58012 | 229 | 182 |
| C58013 | 224 | 174 |
| C58014 | 222 | 183 |
| C58021 | 216 | 189 |
| C58023 | 211 | 169 |
| C60001 | 266 | 64 |
| C60002 | 303 | 8 |
| C60006 | 333 | 51 |
| C60007 | 338 | 24 |
| C60009 | 334 | 71 |
| C60011 | 306 | 18 |
| C60012 | 316 | 20 |
| C60013 | 281 | 10 |
| C60018 | 286 | 39 |
| C60023 | 254 | 33 |
| C60024 | 213 | 41 |
| C60026 | 254 | 51 |
| C60027 | 241 | 50 |
| C60028 | 249 | 75 |
| C60029 | 206 | 38 |
| C61002 | 170 | 33 |
| C61004 | 201 | 15 |
| C61008 | 169 | 58 |

# Chassis Board

## Coordinates of the Components on the Components Side (Top Side)

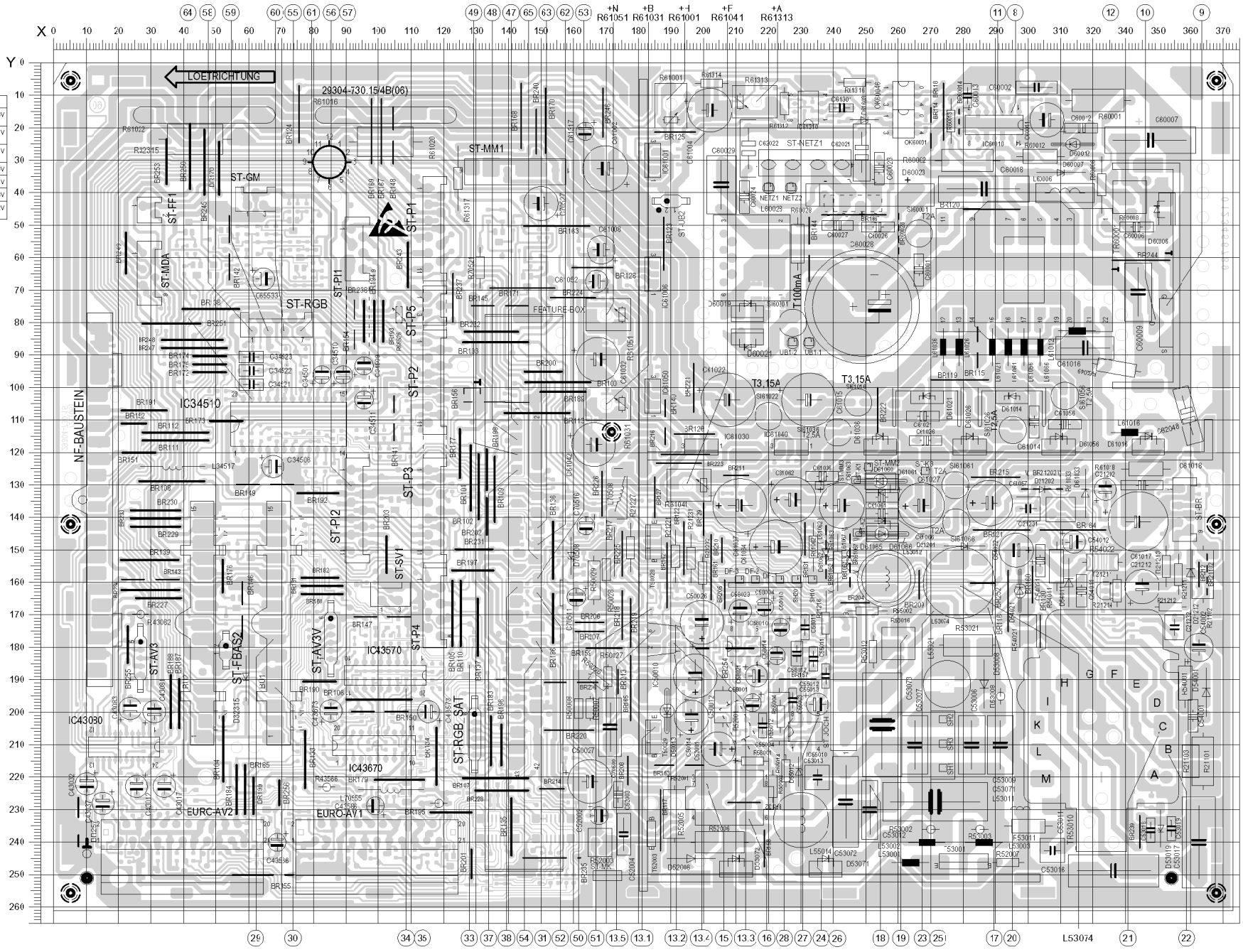
| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| C61014 | 302 | 110 |
| C61015 | 232 | 104 |
| C61016 | 317 | 88 |
| C61017 | 333 | 141 |
| C61018 | 335 | 130 |
| C61021 | 267 | 109 |
| C61022 | 207 | 104 |
| C61026 | 268 | 116 |
| C61027 | 267 | 136 |
| C61032 | 167 | 91 |
| C61036 | 237 | 127 |
| C61037 | 211 | 136 |
| C61042 | 166 | 117 |
| C61052 | 167 | 67 |
| C61056 | 311 | 111 |
| C61057 | 288 | 135 |
| C61061 | 255 | 134 |
| C61062 | 227 | 134 |
| C61063 | 242 | 136 |
| C61064 | 222 | 149 |
| C61066 | 255 | 139 |
| C61301 | 242 | 14 |
| C61317 | 164 | 21 |
| C62021 | 249 | 28 |
| C62022 | 214 | 26 |
| C62048 | 349 | 109 |
| C65533 | 64 | 66 |
| C70509 | 164 | 221 |
| C70511 | 161 | 165 |
| C70516 | 164 | 142 |
| C70527 | 150 | 43 |
| CONTR | 85 | 30 |
| D21201 | 280 | 149 |
| D21202 | 304 | 131 |
| D21212 | 350 | 157 |
| D32315 | 59 | 190 |
| D50013 | 189 | 200 |
| D52006 | 196 | 245 |
| D53008 | 286 | 191 |
| D53019 | 341 | 236 |
| D53071 | 238 | 247 |
| D53072 | 210 | 247 |
| D54001 | 355 | 194 |
| D54011 | 313 | 160 |
| D54021 | 297 | 163 |
| D55012 | 229 | 218 |
| D60006 | 342 | 45 |
| D60007 | 310 | 34 |
| D60012 | 314 | 25 |
| D60019 | 213 | 76 |
| D60021 | 213 | 85 |
| D60023 | 251 | 42 |
| D61014 | 295 | 106 |
| D61016 | 337 | 117 |
| D61021 | 269 | 106 |
| D61026 | 282 | 117 |
| D61033 | 317 | 133 |
| D61036 | 254 | 117 |
| D61056 | 309 | 117 |
| D61060 | 255 | 130 |
| D61061 | 255 | 129 |
| D61062 | 238 | 151 |
| D61065 | 255 | 143 |
| D61066 | 255 | 145 |
| D61067 | 245 | 153 |
| D61603 | 249 | 18 |
| D70508 | 159 | 152 |
| DF-01 | 224 | 159 |
| DF-02 | 216 | 159 |
| DF-03 | 211 | 159 |
| EURO-AV01 | 99 | 245 |
| EURO-AV02 | 40 | 245 |
| FEATURE-BOX1 | 45 | 163 |
| IC34510 | 72 | 111 |
| IC43080 | 22 | 211 |
| IC43570 | 102 | 189 |
| IC43670 | 98 | 210 |
| IC50010 | 187 | 177 |
| IC55010 | 231 | 206 |
| IC58010 | 213 | 180 |
| IC60010 | 290 | 19 |
| IC61001 | 184 | 30 |
| IC61006 | 184 | 65 |
| IC61030 | 199 | 118 |
| IC61040 | 227 | 118 |
| IC61050 | 184 | 102 |
| IC61310 | 232 | 14 |
| L34517 | 37 | 124 |
| L53001 | 264 | 246 |
| L53002 | 269 | 240 |
| L53003 | 286 | 240 |
| L53011 | 297 | 230 |
| L53012 | 256 | 159 |
| L53021 | 275 | 191 |
| L53074 | 279 | 160 |
| L55014 | 230 | 233 |
| L60006 | 311 | 40 |
| L60028 | 215 | 60 |
| L61012 | 315 | 83 |
| L61016 | 331 | 114 |
| L61021 | 289 | 88 |
| L61026 | 279 | 88 |
| L61036 | 274 | 88 |
| L61056 | 299 | 88 |
| L61061 | 294 | 88 |
| L61062 | 238 | 150 |
| L61066 | 304 | 88 |
| L61067 | 245 | 153 |
| L70508 | 174 | 133 |
| L70555 | 104 | 224 |
| NETZ01 | 220 | 38 |
| NETZ02 | 227 | 38 |
| NF-BAUSTEIN13 | | 134 |
| OK60031 | 262 | 19 |
| OK60046 | 262 | 10 |
| R21101 | 354 | 215 |
| R21102 | 354 | 158 |
| R21103 | 350 | 215 |
| R21211 | 346 | 158 |
| R21212 | 344 | 167 |
| R21213 | 342 | 155 |
| R21214 | 328 | 163 |
| R21216 | 238 | 173 |
| R21221 | 191 | 152 |
| R21227 | 177 | 149 |
| R21231 | 196 | 152 |
| R21232 | 200 | 157 |
| R32315 | 43 | 23 |
| R43082 | 27 | 170 |
| R43566 | 84 | 223 |
| R43581 | 118 | 228 |
| R50007 | 165 | 199 |
| R50008 | 161 | 199 |
| R50026 | 168 | 190 |
| R50027 | 170 | 189 |
| R50028 | 170 | 156 |
| R50029 | 166 | 159 |
| R52001 | 206 | 198 |
| R52003 | 168 | 240 |
| R52005 | 191 | 231 |
| R52006 | 205 | 240 |
| R52007 | 294 | 246 |
| R53002 | 270 | 236 |
| R53003 | 285 | 236 |
| R53008 | 292 | 195 |
| R53011 | 300 | 235 |
| R53012 | 252 | 181 |
| R53016 | 260 | 179 |
| R53021 | 281 | 179 |
| R54001 | 348 | 191 |
| R54011 | 309 | 155 |
| R54021 | 300 | 175 |
| R54022 | 323 | 154 |
| R55002 | 251 | 169 |
| R55004 | 224 | 201 |
| R55012 | 223 | 201 |
| R55014 | 226 | 218 |
| R58001 | 215 | 215 |
| R58002 | 221 | 223 |
| R60001 | 322 | 11 |
| R60002 | 281 | 30 |
| R60006 | 322 | 38 |
| R60008 | 331 | 41 |
| R60012 | 304 | 29 |
| R60013 | 276 | 18 |
| R60028 | 229 | 56 |
| R61001 | 190 | 13 |
| R61016 | 102 | 16 |
| R61018 | 336 | 125 |
| R61020 | 102 | 24 |
| R61022 | 46 | 16 |
| R61031 | 171 | 105 |
| R61033 | 310 | 138 |
| R61041 | 196 | 130 |
| R61051 | 171 | 78 |
| R61062 | 234 | 149 |
| R61063 | 241 | 154 |
| R61312 | 225 | 13 |
| R61313 | 216 | 12 |
| R61314 | 203 | 6 |
| R61316 | 247 | 6 |
| R61317 | 125 | 35 |
| R62049 | 327 | 94 |
| R65525 | 106 | 78 |
| R70521 | 131 | 63 |
| SH01 | 274 | 217 |
| SH02 | 274 | 202 |
| SH03 | 274 | 210 |
| SH10 | 233 | 159 |
| SH20 | 228 | 159 |
| SI60001 | 266 | 53 |
| SI60201 | 228 | 80 |
| SI61016 | 247 | 105 |
| SI61022 | 220 | 109 |
| SI61026 | 295 | 113 |
| SI61036 | 241 | 114 |
| SI61056 | 311 | 102 |
| SI61061 | 278 | 130 |
| SI61066 | 278 | 142 |
| ST-AV03 | 27 | 183 |
| ST-AV03V | 85 | 177 |
| ST-BR | 348 | 138 |
| ST-FBAS02 | 53 | 181 |
| ST-FF01 | 29 | 45 |
| ST-GM | 62 | 42 |
| ST-JOCH | 243 | 191 |
| ST-K01 | 247 | 128 |
| ST-K02 | 247 | 145 |
| ST-K03 | 268 | 126 |
| ST-MDA | 29 | 65 |
| ST-MK | 170 | 250 |
| ST-MM01 | 142 | 34 |
| ST-MM02 | 251 | 124 |
| ST-MM03 | 235 | 130 |
| ST-NETZ01 | 231 | 31 |
| ST-P01 | 117 | 51 |
| ST-P02 | 117 | 98 |
| ST-P03 | 117 | 138 |
| ST-P04 | 117 | 168 |
| ST-P05 | 117 | 75 |
| ST-PI01 | 93 | 57 |
| ST-PI02 | 93 | 138 |
| ST-RGB | 69 | 81 |
| ST-RGB_SAT129 | | 207 |
| ST-SV01 | 103 | 164 |
| ST-UB02 | 190 | 43 |
| T21211 | 323 | 163 |
| T50028 | 185 | 148 |
| T50029 | 185 | 208 |
| T52003 | 184 | 237 |
| T53001 | 280 | 246 |
| T60006 | 336 | 65 |
| TR52001 | 208 | 226 |
| TR53010 | 321 | 206 |
| TR60001 | 299 | 64 |
| UB1-1 | 233 | 86 |
| UB1-2 | 228 | 86 |

## Chassisplatte / Chassis Board

| +3 | +12v |
|---|---|
| +? | +5V |
| +I | +5V |
| +I | +5V |

| * | +A |
|---|---|
| 72cm 4:3 SUPER FLAT TOSHIBA | +146V |
| 72cm 4:3 REAL FLAT TOSHIBA | +137V |
| 82cm 16:9 REAL FLAT TOSHIBA | +141V |
| 72cm 16:9 PHILIPS | +143V |
| 82cm 16:9 PHILIPS | +141V |
| 72cm 4:3 PHILIPS | +138V |
| 82cm 16:9 REAL FLAT PHILIPS | +142V |

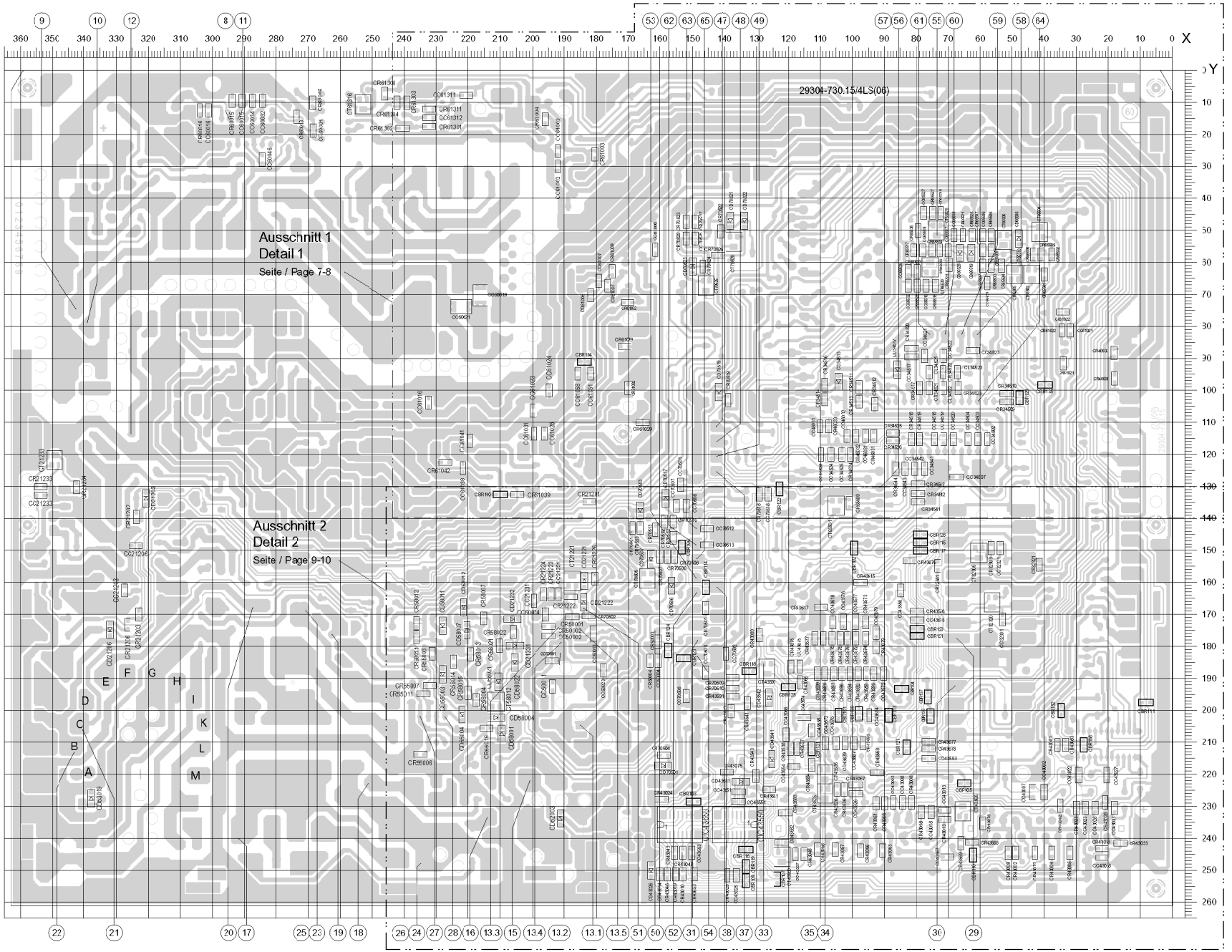
**Bestückungsseite. Ansicht von oben / Component Side, Top View**



Platinenabbildungen und Schaltpläne / Layout of the PCBs and Circuit Diagrams CUC 1832 / 1930 / 1931

## Chassisplatte / Chassis Board

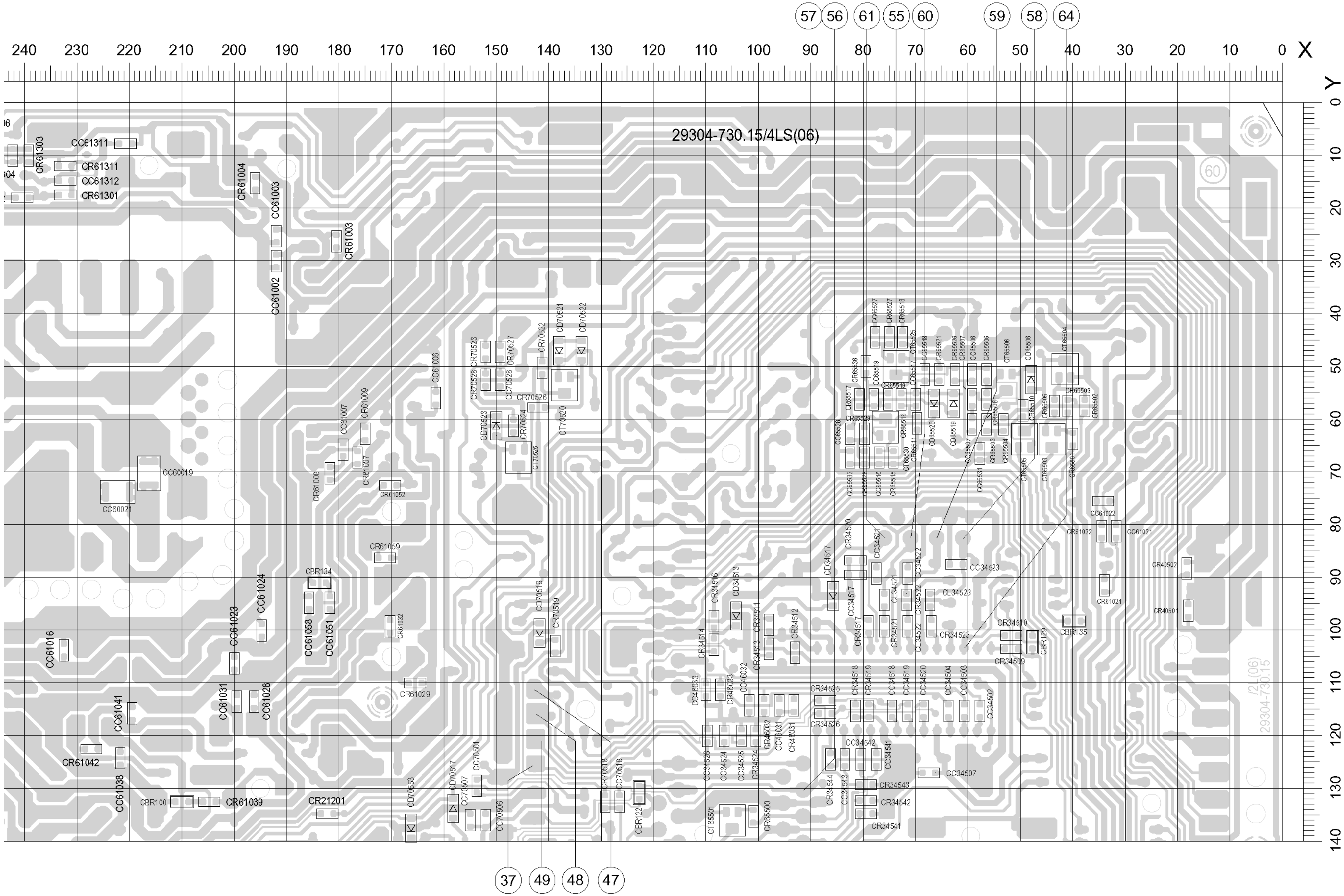
**Lötseite, Ansicht von unten / Solder Side, Bottom View**



CUC 1832 / 1930 / 1931 Platinenabbildungen und Schaltpläne / Layout of the PCBs and Circuit Diagrams

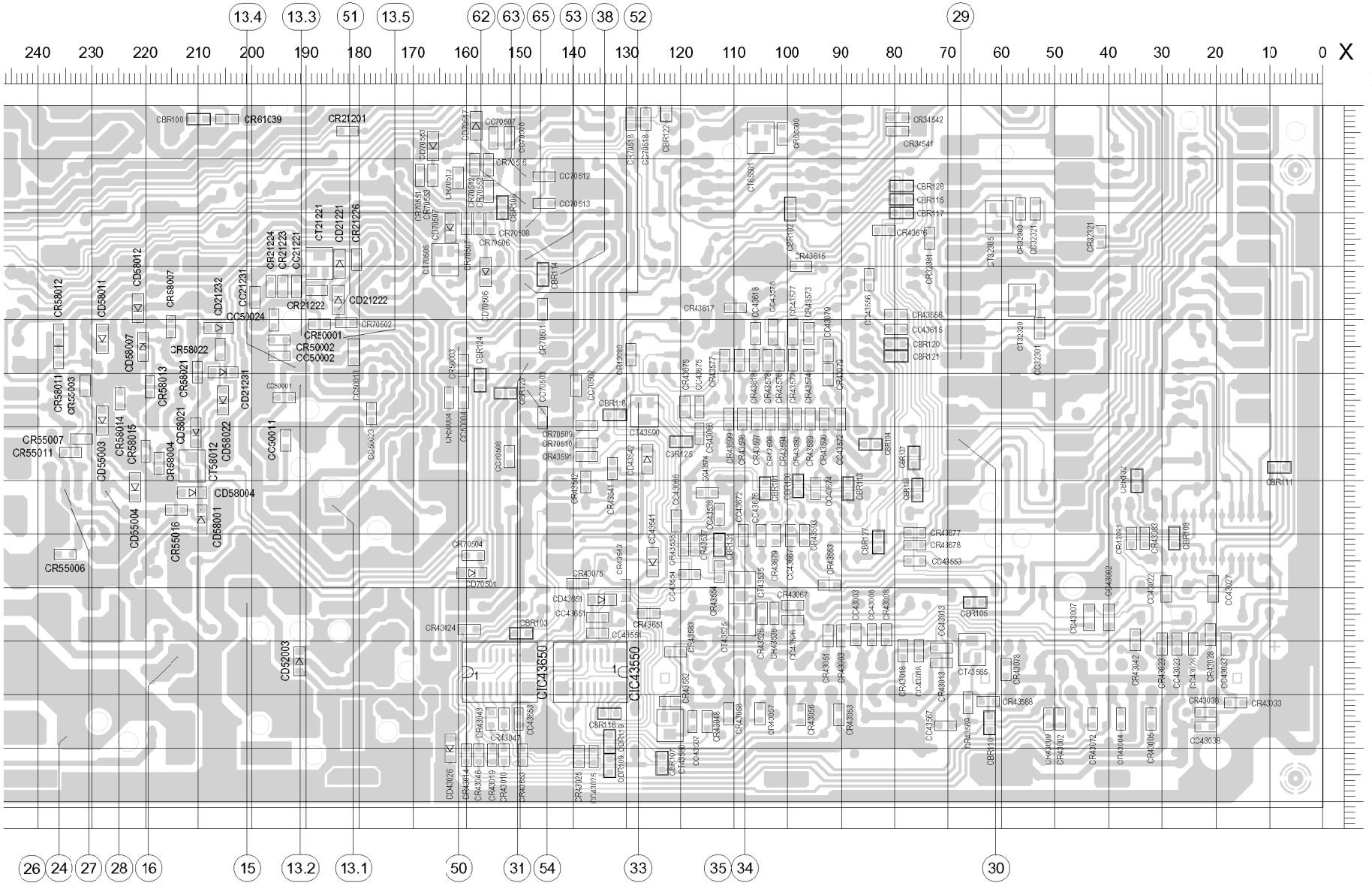
## Chassisplatte (vergrößert) Ausschnitt 1
## Chassis Board (enlarged) Detail 1

**Lötseite, Ansicht von unten**
**Solder Side, Bottom View**



## Chassisplatte (vergrößert) Ausschnitt 2
## Chassis Board (enlarged) Detail 2

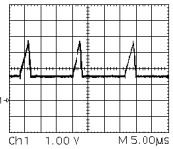
Lötseite, Ansicht von unten
Solder Side, Bottom View






Platinenabbildungen und Schaltpläne / Layout of the PCBs and Circuit Diagrams CUC 1832 / 1930 / 1931

## Oszillogramme Chassis / Oscillograms Chassis



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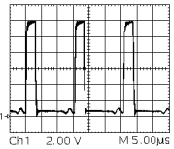

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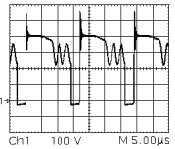

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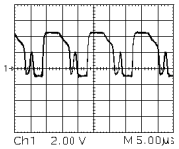

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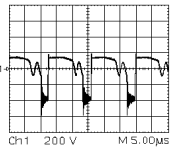

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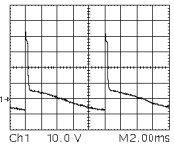

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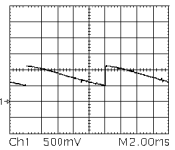

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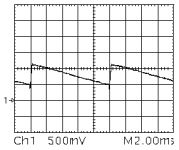

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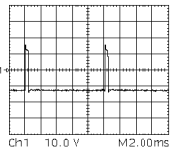

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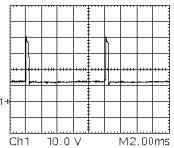

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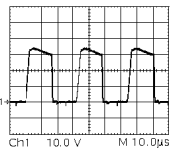

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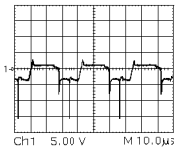

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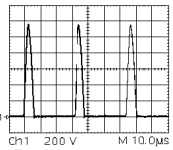

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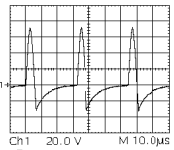

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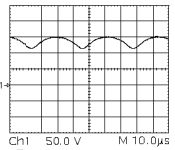

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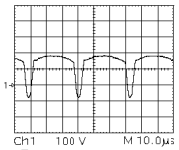

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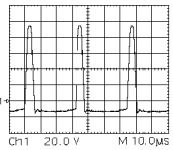

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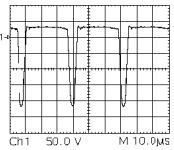

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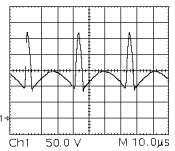
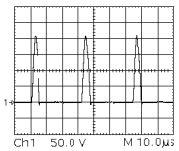


23 Zeile/Line



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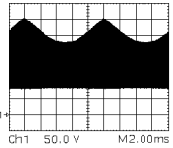
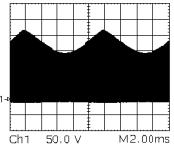
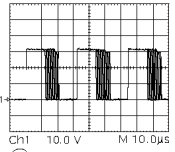


25 Bild/Picure



26 Bild/Picture



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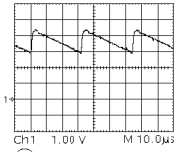

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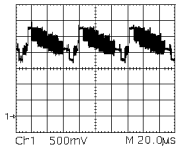

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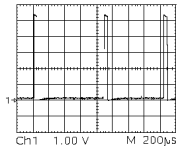
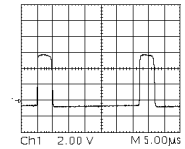


30 Bei Gerät "EIN" und Programmwechsel
With TV "ON" and changing the program



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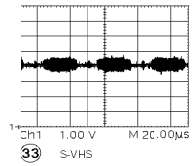
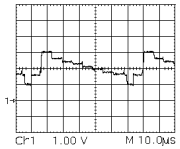


33 S-VHS



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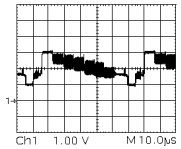

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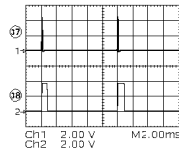
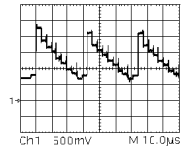


37/38



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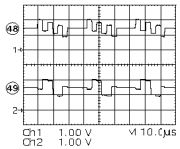

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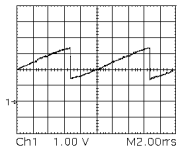

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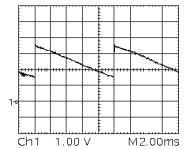

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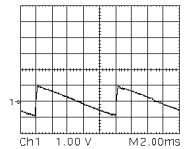

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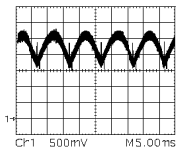

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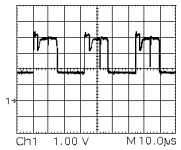

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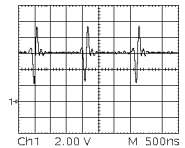
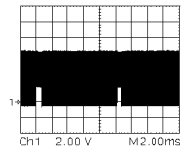
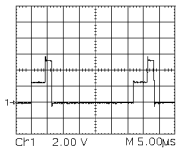


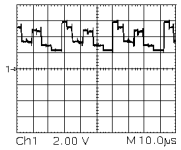
55 mit Gittertestbild
with Grid pattern



56 Bild/Picture



57 Zeile/Line



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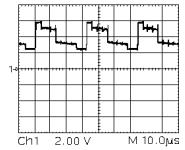

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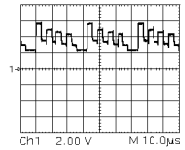

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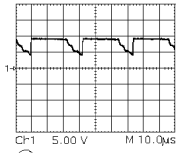

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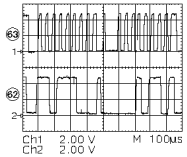

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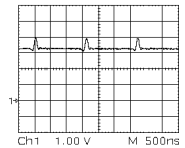
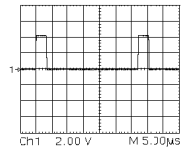
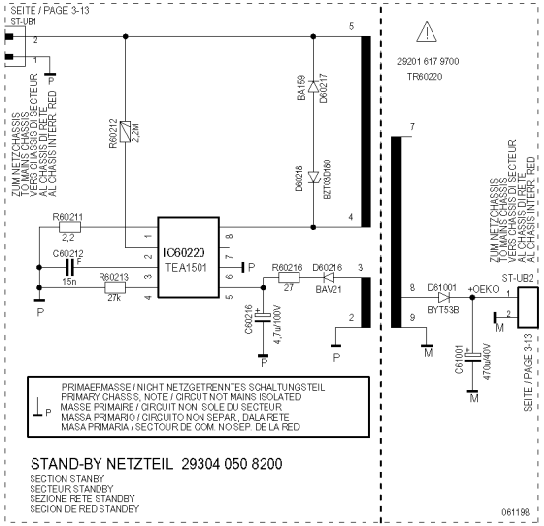


64 mit Gittertestbild
with Grid pattern

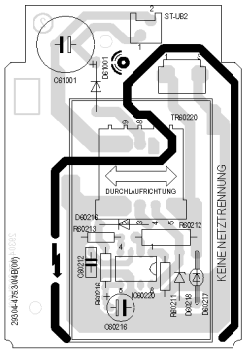


65

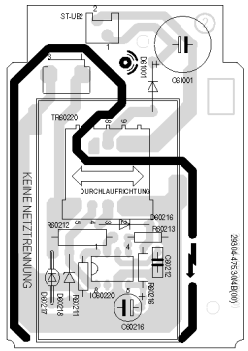
## Standby Netzteil / Section Standby




**Bestückungsseite, Ansicht von oben**
**Component Side, Top View**




**Lötseite, Ansicht von unten**
**Solder Side, Bottom View**



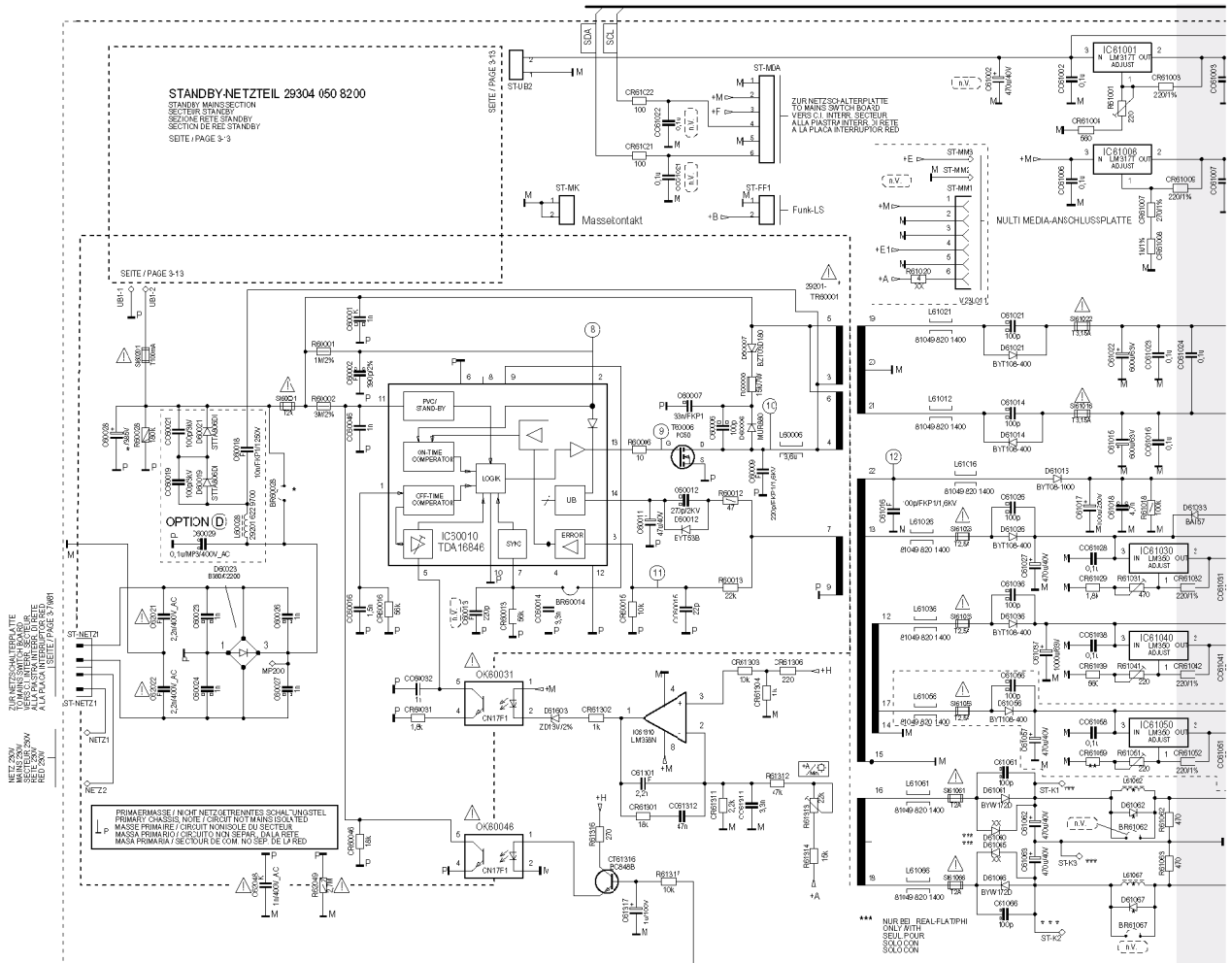

Bei den in den Schaltplänen angegebenen Messwerten handelt es sich um Näherungswerte!

The measured values given in the circuit diagrams are approximates!





## Netz-Chassis / Mains Chassis



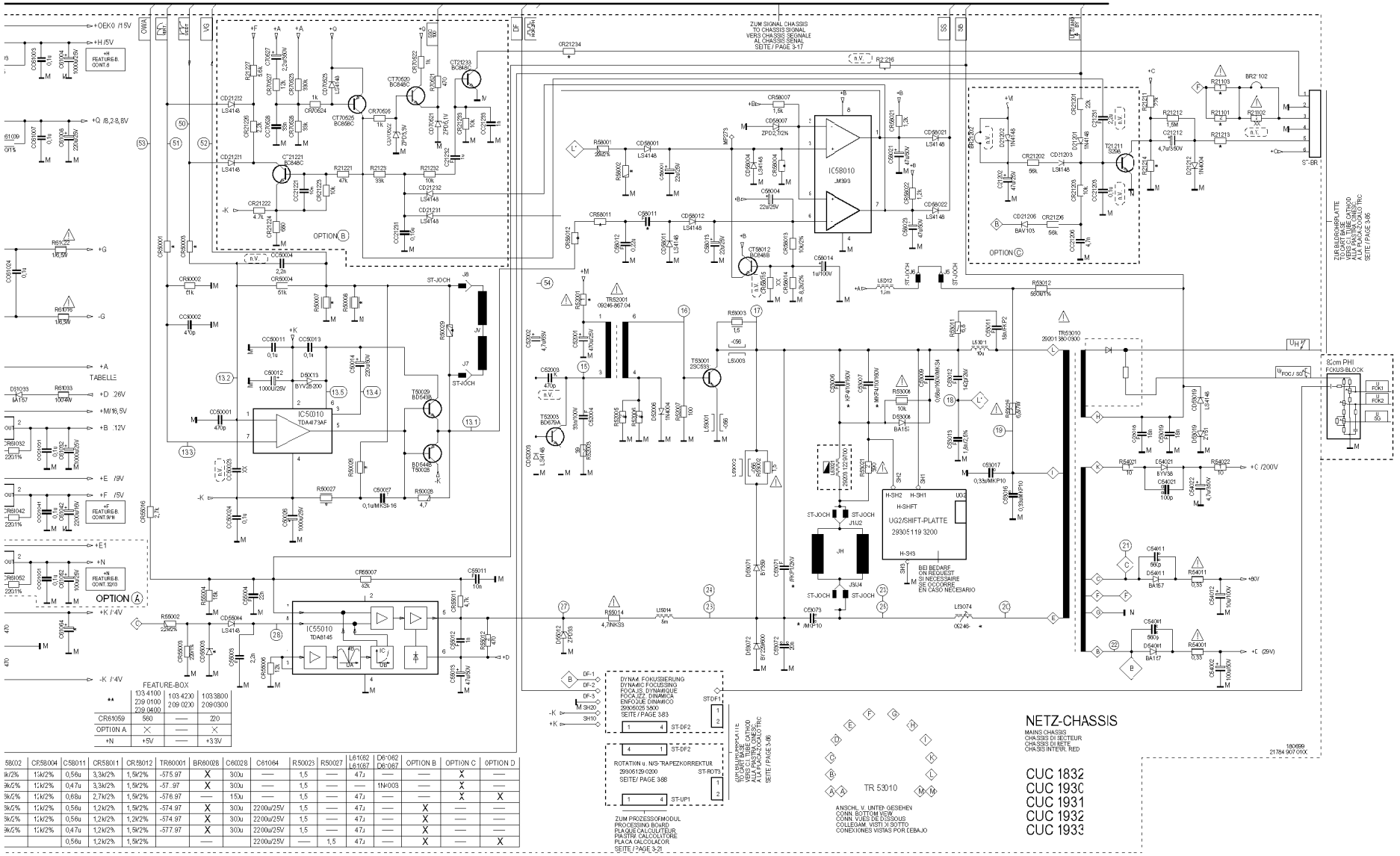

| * | +A | R21181 | R21103 | R21213 | R21214 | CR21234 | CR50001 CR50003 | R50007 R50008 | R50029 | R52001 | R52005 | R52006 | C53006 | C53007 | C53071 | C53373 | L53074 | CD55003 | R58000 | CR5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SUPER FLAT TOS 72cm 4:3 | 148V | 3,3/2W | — | 10k | — | — | 68k | 1,5 | 150 | 6,8 | 5,1 | 5,1 | 0,25u | 0,25u | 12n | 0,68u | B59.64 | 4,3V/2% | 3k/2% | 13k |
| REAL FLAT TOS 72cm 4:3 | 137V | — | 4,7/1W | 10k | — | — | 75k | 2,2 | 270 | 4,7 | 3,9 | 3,9 | 0,3u | 0,3u | 12,5n | 0,68u | B59.66 | 4,3V/2% | 3,9k/2% | 12k |
| REAL FLAT TOS 82cm 16:9 | 141V | — | 5,1/1W | 10k | — | — | 68k | 5 | 270 | 4,7 | 4,7 | 4,7 | 0,3u | 0,3u | 13n | 0,68u | B59.63 | 4,3V/2% | 3,6k/2% | 12k |
| CUC 1930 PHI 70cm 16:9 | 143V | — | 6,8/1W | 10k | 100k | 330 | 82k | 2,4 | 270 | 6,8 | 4,3 | 4,3 | o.41u | 0,3u | 12,5n | 0,68u | B59.63 | 4,3V/2% | 3,6k/2% | 12k |
| CUC 1931 PHI 82cm 16:9 | 141V | — | 6,8/1W | 10k | 100k | 220 | 82k | 2,4 | 270 | 4,7 | 3,9 | 3,3 | 0,41u | 0,3u | 13n | 0,68u | B59.63 | 4,3V/2% | 3,6k/2% | 12k |
| PHI 72cm 4:3 | 138V | — | 6,2/1W | 100k | 100k | 220 | 75k | 1,5 | 270 | 4,7 | 5,1 | 5,1 | 0,41u | 0,41u | 12n | 0,5u | B59.66 | 3,9V/2% | 3,9k/2% | 12k |
| REAL FLAT PHI 82cm 16:9 | 142V | | | 10k | 100k | 220 | 68k | 2,0 | 130 | 4,7 | 4,7 | 4,7 | 0,25u | 0,25u | | 0,68u | | | | |

ÄNDERUNGEN VORBEHALTEN
SUBJECT TO ALTERNATE
SOURIS RESERVE DE MODIFIC
CON RISERVA DI MODIFICA
RESERV. EL DERECHO DE MODIFIC.

**Spannungstabelle**
**Table of Voltages**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +1 | +12V | +4A | +5V | +B1 | +/-2V | +E1 | +8.5V | +F/3 | -5V | -G | -16.5V -13V CUC 1931 STATUS | +K | +13V | +Q | +8.5V |
| +2 | +5V | +5 | +5V | +C | +200V | +F | +5V | +G | -16.5V -13V CUC 1931 STATUS | -G/1 | -16.5V -13V CUC 1931 STATUS | -K | -13V | +Q/1 | +8.5V |
| +3 | +3.3V PAL/PLUS +5V LFR | +7 | +12V | +D | +26V | +F/1 | +5V | +G/1 | -16.5V -13V CUC 1931 STATUS | -G/2 | -16.5V -12V CUC 1931 STATUS | +M | +16V | +Q/3 | +8.5V |
| +4 | +5V | +B | +12V | +E | +8.5V | +F/2 | +5V | +G/2 | -16.5V -12V CUC 1931 STATUS | +H | +5V | +N | +5V +3.3V PAL/PLUS | +OEKO | +9.5V – +14V |

CUC 1832 / 1930 / 1931 Platinenabbildungen und Schaltpläne / Layout of the PCBs and Circuit Diagrams

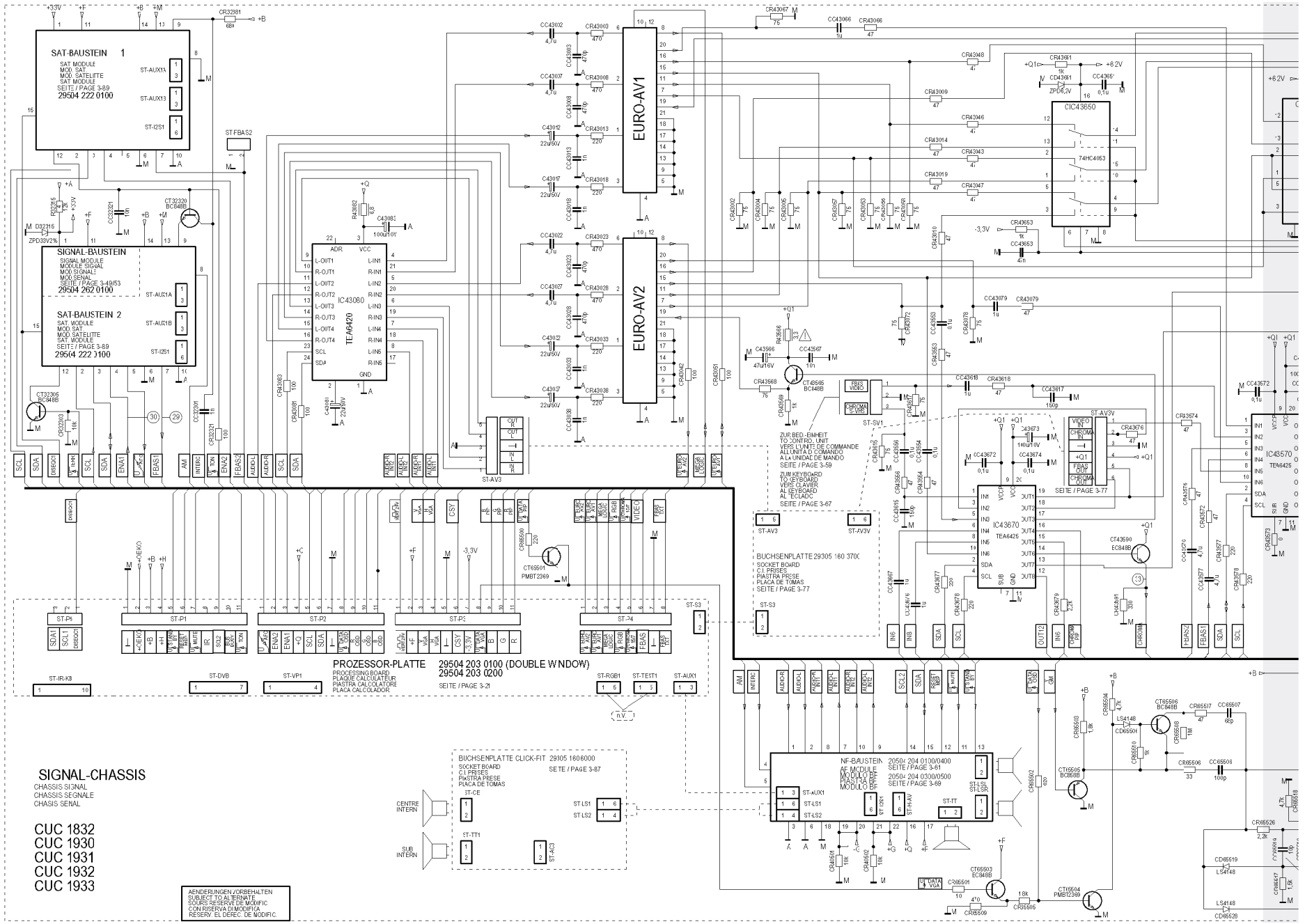


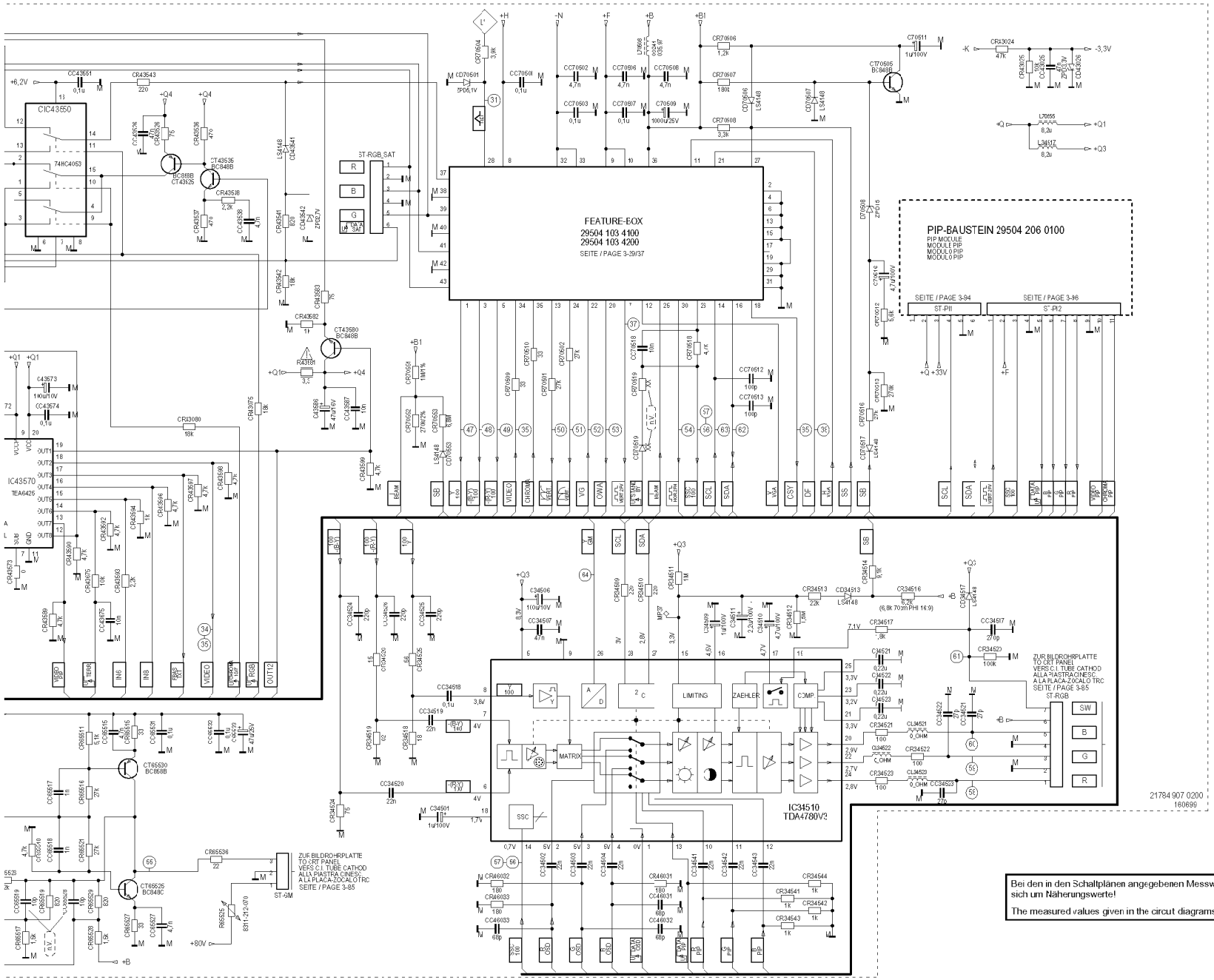

| ** | 133 4100<br>239 0100<br>239 0400 | 103 4200<br>209 0200 | 103 3800<br>209 0300 |
|---|---|---|---|
| CR61059 | 560 | — | 220 |
| OPTION A | X | — | X |
| +N | +5V | — | +3.3V |

| CR58002 | CR58004 | CR58011 | CR58012 | TR60001 | BR60028 | C60028 | C61064 | R50023 | R50027 | L61162<br>L61167 | D6'062<br>D6'067 | OPTION B | OPTION C | OPTION D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1k/2% | 15k/2% | 0,56u | 3,3k/2% | 1,5k/2% | -575.97 | X | 330u | — | 1,5 | — | 47µ | — | — | X | — |
| 1k/2% | 1k/2% | 0,47u | 3,3k/2% | 1,5k/2% | -57..97 | X | 330u | — | 1,5 | — | — | 1N4003 | — | X | — |
| 1k/2% | 1k/2% | 0,68u | 2,7k/2% | 1,5k/2% | -576.97 | — | 150u | — | 1,5 | — | 47µ | — | — | X | X |
| 1k/2% | 1k/2% | 0,56u | 1,2k/2% | 1,5k/2% | -574.97 | X | 330u | 2200u/25V | 1,5 | — | 47µ | — | X | — | — |
| 1k/2% | 1k/2% | 0,56u | 1,2k/2% | 1,2k/2% | -574.97 | X | 330u | 2200u/25V | 1,5 | — | 47µ | — | X | — | — |
| 1k/2% | 1k/2% | 0,47u | 1,2k/2% | 1,5k/2% | -577.97 | X | 330u | 2200u/25V | 1,5 | — | 47µ | — | X | — | — |
| | | 0,56u | 1,2k/2% | 1,5k/2% | | — | | 2200u/25V | — | 1,5 | 47µ | — | X | — | X |

Platinenabbildungen und Schaltpläne / Layout of the PCBs and Circuit Diagrams CUC 1832 / 1930 / 1931

## Signal-Chassis / Chassis Signal






| Spannungstabelle Table of Voltages | |
|---|---|
| +1 | +˙2V |
| +2 | +5V |
| +3 | +3.3V PA../PLUS +5V LFR |
| +4 | +5V |
| +4A | +5V |
| +5 | +5V |
| +7 | +˙2V |
| +B | +˙2V |
| +B1 | +˙2V |
| +C | +200V |
| +D | +26V |
| +E | +6.5V |
| +E1 | +6.5V |
| +F | +5V |
| +F/1 | +5V |
| +F/2 | +5V |
| +F/3 | +5V |
| +G | +˙6.5V +˙3V CUC 1931 STATUS |
| +G/1 | +˙6.5V +˙3V CUC 1931 STATUS |
| +G/2 | +˙6.5V +˙2V CUC 1931 STATUS |
| -G | -13.5V -13V CUC 1931 STATUS |
| -G/1 | -13.5V -13V CUC 1931 STATUS |
| -G/2 | -15.5V -12V CUC 1931 STATUS |
| +H | +5V |
| +K | +˙3V |
| -K | -13V |
| +M | +˙6V |
| +N | +5V +3.3V PA../PLUS |
| +Q | +6.5V |
| +Q/1 | +6.5V |
| +Q/3 | +6.5V |
| +OEKO | +9.5V – +14V |

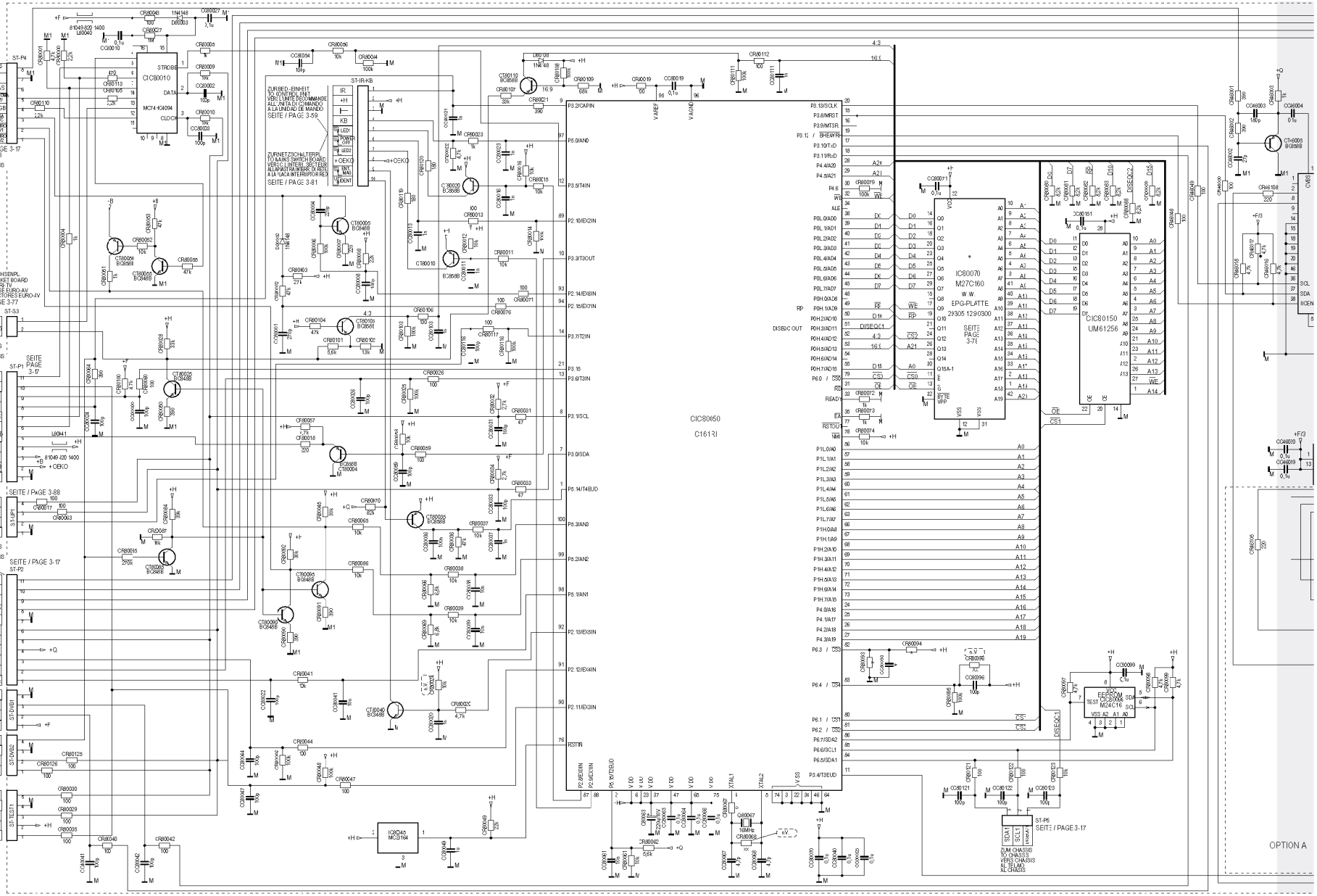
Bei den in den Schaltplänen angegebenen Messwerten handelt es sich um Näherungswerte!

The measured values given in the circuit diagrams are approximates!

Platinenabbildungen und Schaltpläne / Layout of the PCBs and Circuit Diagrams CUC 1832 / 1930 / 1931

# Prozessor-Modul / Processing Board 29504 203 0100 / 29504 203 0200 / 29504 203 0400

| Spannungstabelle<br>Table of Voltages | | | | | | | |
|---|---|---|---|---|---|---|---|
| +1 | +12V | +4A | +5V | +B1 | +12V | +E1 | +8.5v |
| +2 | +5V | +5 | +5V | +C | +200V | +F | +5V |
| +3 | +3.3V PAL/PLLS<br>+5V LRR | +7 | +12V | +D | +26V | +F/1 | +5V |
| +4 | +5V | +B | +12V | +E | +8.5V | +F/2 | +5V |



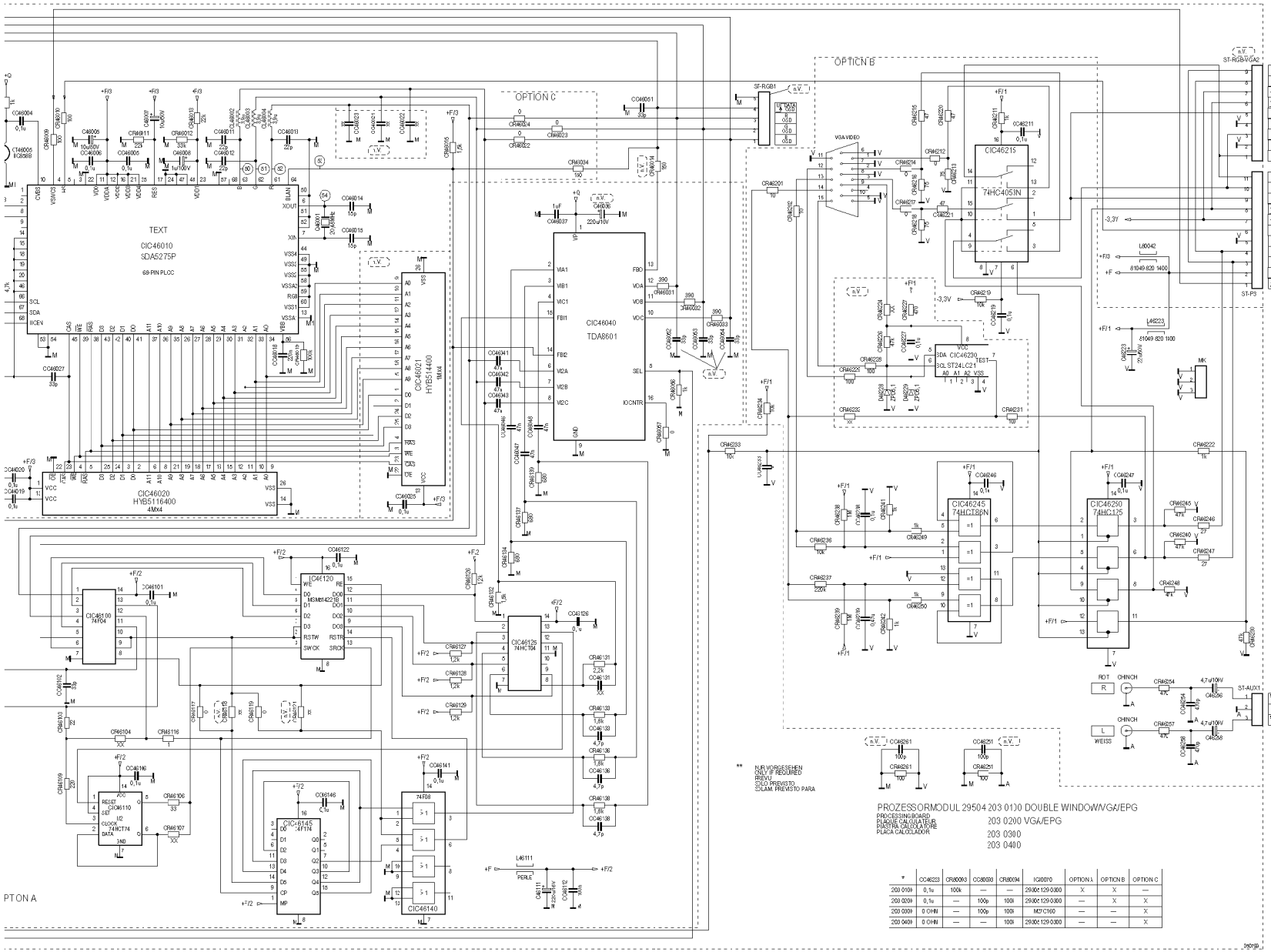



3 - 22 GRUNDIG Service

| Spannungstabelle<br>Table of Voltages | | | | | | | |
|---|---|---|---|---|---|---|---|
| +F/3 | +5V | -G | - 6.5V<br>- 3V CUC 1931 STATUS | +K | +12V | +Q | +8.5V |
| +G | +16.5V<br>+13V CUC 1931 STATUS | -G/1 | - 6.5V<br>- 3V CUC 1931 STATUS | -K | -13V | +Q/1 | +8.5V |
| +G/1 | +16.5V<br>+13V CUC 1931 STATUS | -G/2 | - 6.5V<br>- 2V CUC 1931 STATUS | +M | +16V | +Q/3 | +8.5V |
| +G/2 | +16.5V<br>+12V CUC 1931 STATUS | +H | +5V | +N | +6V<br>+3.3V PAL/PLUS | +OEKO | +9.5V – +14V |

Bei den in den Schaltplänen angegebenen Messwerten handelt es sich um Näherungswerte!

The measured values given in the circuit diagrams are approximates!




PROZESSORMODUL 29504 203 0100 DOUBLE WINDOW/VGA/EPG

PROCESSING BOARD
PLAQUE CALCULATEUR
PIASTRA CALCOLATRICE
PLACA CALCULADOR

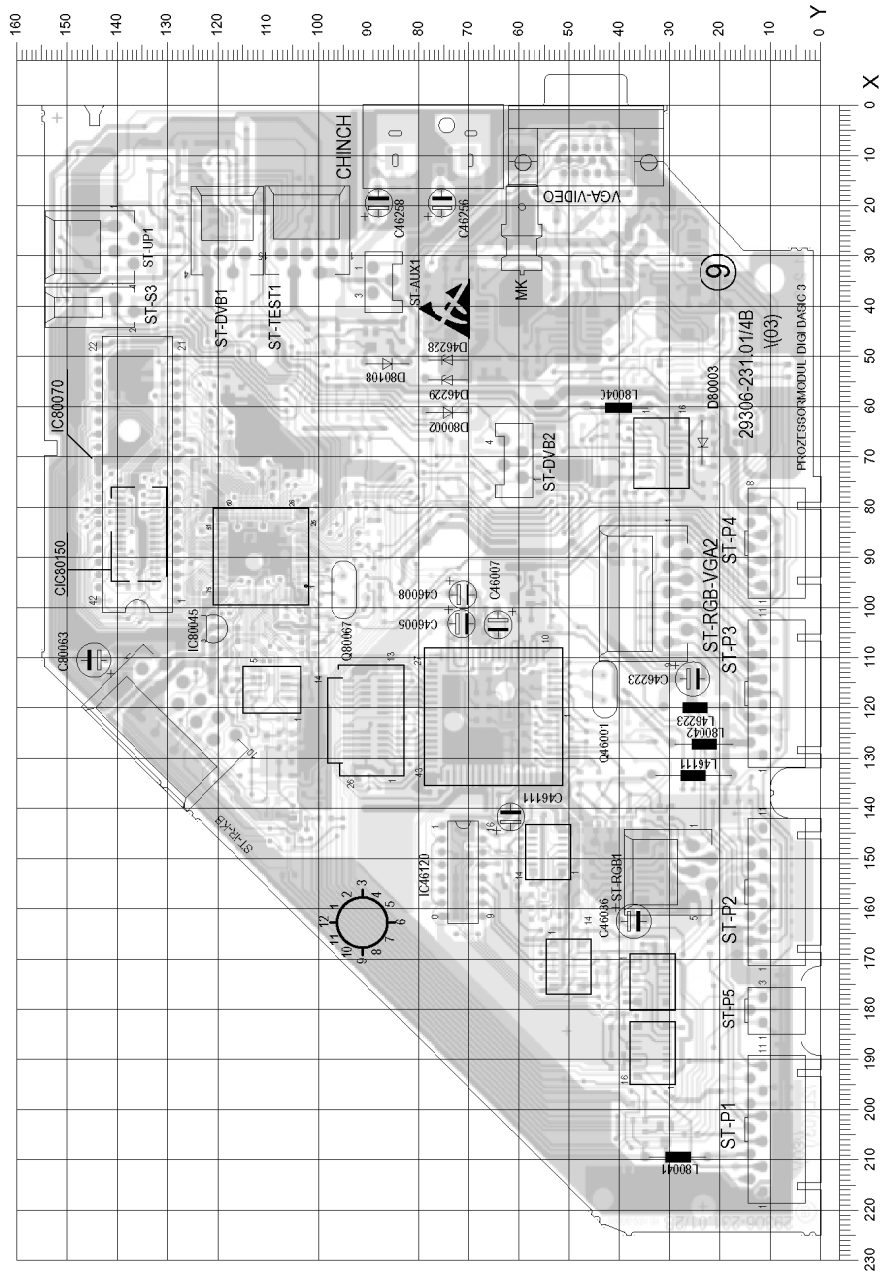
203 0200 VGA/EPG
203 0300
203 0400

| * | CC46233 | CR80093 | CC80093 | CR80094 | IC80070 | OPTION A | OPTION B | OPTION C |
|---|---|---|---|---|---|---|---|---|
| 203 0100 | 0,1u | 100k | — | — | 2980C129-0300 | X | X | — |
| 203 0200 | 0,1u | — | 100p | 100k | 2980C129-0300 | — | X | X |
| 203 0300 | 0 OHM | — | 100p | 100k | M27C160 | — | — | X |
| 203 0400 | 0 OHM | — | — | 100k | 2980C129-0300 | — | — | X |



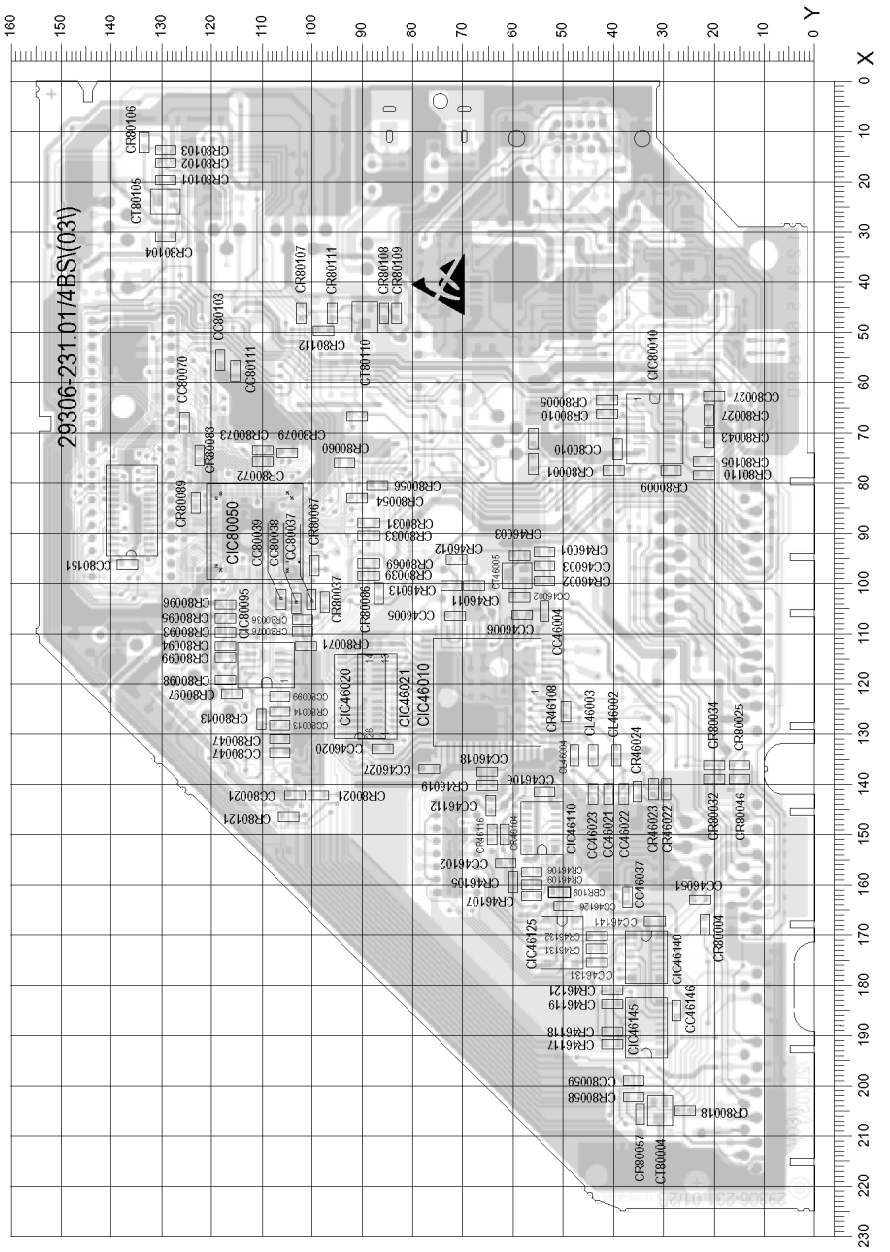
CUC 1832 / 1930 / 1931 Platinenabbildungen und Schaltpläne / Layout of the PCBs and Circuit Diagrams

**Bestückungsseite, Ansicht von oben**
**Component Side, Top View**

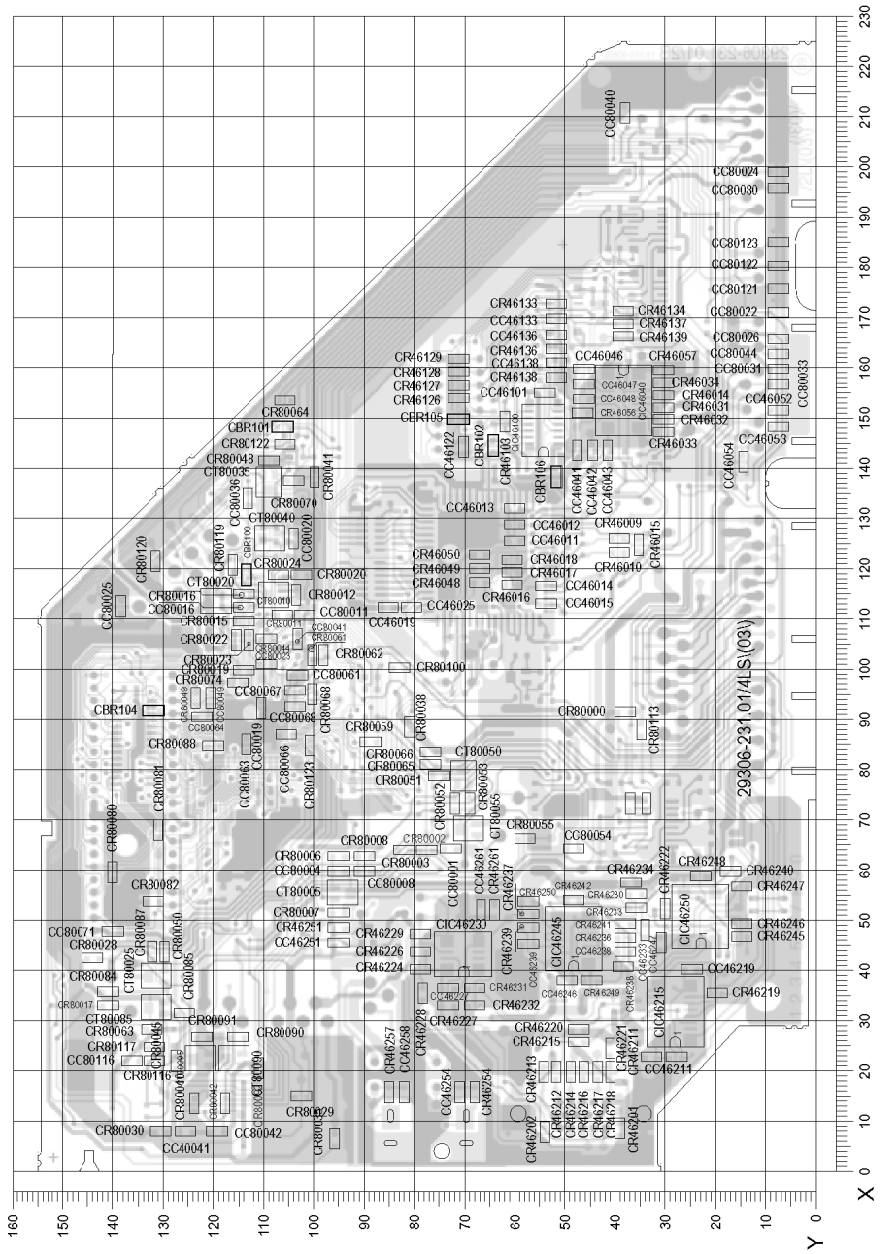






**Lötseite, Ansicht von unten**
**Solder Side, Bottom View**








**Koordinaten für die Bauteile der Bestückungsseite (Oberseite)**
**Coordinates of the Components on the Components Side (Top Side)**

| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| AN010 | 241 | 14 |
| AN011 | 6 | 170 |
| AN012 | 6 | 0 |
| AN013 | 123 | 156 |
| C46005 | 103 | 71 |
| C46007 | 104 | 63 |
| C46008 | 98 | 71 |
| C46036 | 163 | 37 |
| C46111 | 142 | 62 |
| C46223 | 115 | 25 |
| C46256 | 20 | 75 |
| C46258 | 20 | 88 |
| C80063 | 111 | 144 |
| CHINCH | 4 | 77 |
| D46228 | 51 | 74 |
| D46229 | 35 | 74 |
| D80002 | 62 | 74 |
| D8C003 | 68 | 23 |
| D8C108 | 52 | 86 |
| IC43120 | 153 | 71 |
| IC83045 | 105 | 120 |
| IC83070 | 74 | 136 |
| L46111 | 134 | 25 |
| L46223 | 120 | 25 |
| L80040 | 61 | 40 |
| L80041 | 210 | 28 |
| L80042 | 128 | 23 |
| MK | 25 | 59 |
| Q46001 | 117 | 43 |
| Q80067 | 97 | 95 |
| ST-AUX1 | 36 | 87 |
| ST-DVB1 | 25 | 118 |
| ST-DVB2 | 7 | 61 |
| ST-IR-KB | 123 | 130 |
| ST-P1 | 204 | 9 |
| ST-P2 | 157 | 9 |
| ST-P3 | 116 | 9 |
| ST-P4 | 86 | 9 |
| ST-P5 | 180 | 9 |
| ST-RGB-VGA | 298 | 35 |
| ST-PGB1 | 153 | 30 |
| ST-S3 | 41 | 145 |
| ST-TEST1 | 25 | 102 |
| ST-UP1 | 29 | 145 |
| VGA-VIDEO | 5 | 46 |

**Koordinaten für die Chip-Bauteile der Bestückungsseite (Oberseite)**
**Coordinates of the Chip Components on the Components Side (Top Side)**

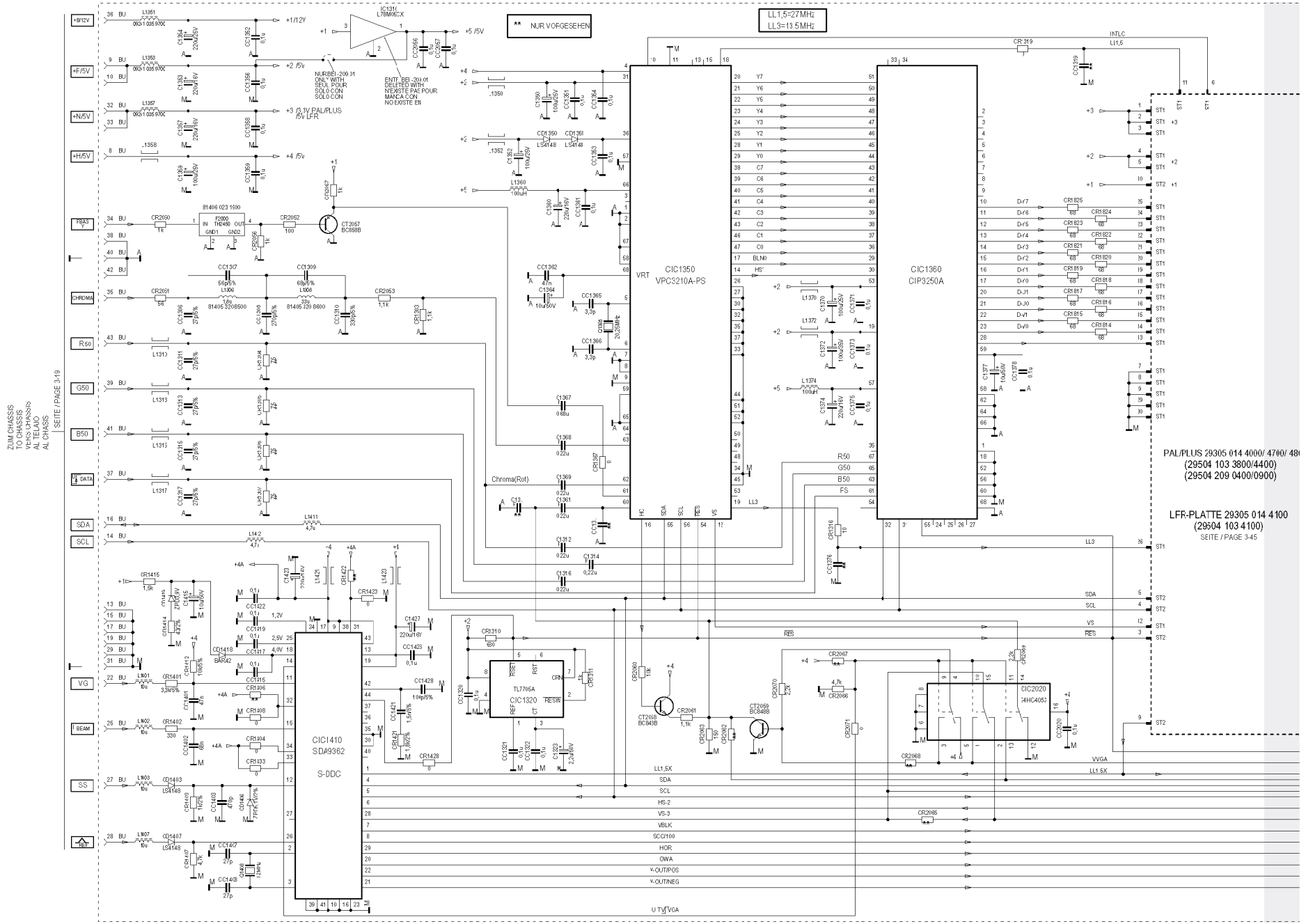
| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| CBR'09 | 161 | 51 |
| CC4E002 | 103 | 59 |
| CC4E003 | 97 | 54 |
| CC4E004 | 106 | 54 |
| CC4E005 | 107 | 72 |
| CC4E006 | 106 | 58 |
| CC46018 | 138 | 65 |
| CC46020 | 138 | 86 |
| CC46021 | 142 | 41 |
| CC46022 | 142 | 38 |
| CC46023 | 142 | 44 |
| CC46027 | 137 | 77 |
| CC46037 | 163 | 37 |
| CC46051 | 163 | 23 |
| CC46102 | 156 | 62 |
| CC4E106 | 142 | 54 |
| CC4E112 | 144 | 65 |
| CC4E126 | 164 | 50 |
| CC4E131 | 175 | 43 |
| CC4E141 | 167 | 32 |
| CC4E146 | 185 | 28 |
| CC8C010 | 73 | 39 |
| CC8C013 | 128 | 107 |
| CC80021 | 142 | 103 |
| CC80027 | 63 | 20 |
| CC80037 | 103 | 100 |
| CC80038 | 104 | 103 |
| CC80039 | 103 | 106 |
| CC80047 | 134 | 107 |
| CC80059 | 199 | 36 |
| CC80070 | 68 | 125 |
| CC80093 | 110 | 117 |
| CC80096 | 104 | 117 |
| CC80099 | 123 | 107 |
| CC80103 | 36 | 118 |
| CC80111 | 38 | 115 |
| CC80151 | 96 | 137 |
| CIC46010 | 122 | 65 |
| CIC46020 | 123 | 91 |
| CIC46021 | 122 | 87 |
| CIC46110 | 149 | 54 |
| CIC46125 | 172 | 50 |
| CIC46140 | 175 | 33 |
| CIC46145 | 189 | 33 |
| CIC80010 | 69 | 32 |
| CIC80050 | 90 | 111 |
| CIC80095 | 116 | 109 |
| CIC80150 | 86 | 136 |
| CL46002 | 134 | 40 |
| CL46003 | 134 | 44 |
| CL46004 | 134 | 48 |
| CR46001 | 94 | 54 |
| CR46002 | 99 | 54 |
| CR46003 | 94 | 59 |
| CR46011 | 100 | 68 |
| CR46012 | 95 | 71 |
| CR46013 | 100 | 72 |
| CR46019 | 140 | 65 |
| CR46022 | 141 | 30 |
| CR46023 | 141 | 32 |
| CR46024 | 142 | 35 |
| CR46104 | 150 | 62 |
| CR46105 | 159 | 60 |
| CR46106 | 168 | 56 |
| CR46107 | 162 | 56 |
| CR46108 | 125 | 49 |
| CR46109 | 160 | 56 |
| CR46116 | 150 | 64 |
| CR46117 | 192 | 40 |
| CR46118 | 189 | 40 |
| CR46119 | 194 | 40 |
| CR46121 | 181 | 40 |
| CR46131 | 173 | 43 |
| CR46132 | 170 | 43 |
| CR80001 | 78 | 40 |
| CR80004 | 168 | 22 |
| CR80005 | 63 | 41 |
| CR80009 | 78 | 28 |
| CR80010 | 66 | 41 |
| CR80013 | 127 | 110 |
| CR80014 | 125 | 107 |
| CR80018 | 205 | 26 |
| CR80021 | 142 | 99 |
| CR80025 | 136 | 15 |
| CR80026 | 67 | 91 |
| CR80027 | 67 | 21 |
| CR80031 | 88 | 89 |
| CR80032 | 139 | 20 |
| CR80033 | 91 | 89 |
| CR80034 | 136 | 20 |
| CR80036 | 107 | 102 |
| CR80037 | 104 | 98 |
| CR80039 | 96 | 89 |
| CR80043 | 7 | 21 |
| CR80046 | 139 | 15 |
| CR80047 | 13 | 107 |
| CR80054 | 83 | 91 |
| CR80056 | 8 | 87 |
| CR80057 | 206 | 35 |
| CR80058 | 202 | 36 |
| CR80060 | 76 | 94 |
| CR80067 | 97 | 99 |
| CR80069 | 96 | 89 |
| CR80071 | 115 | 101 |
| CR80072 | 76 | 110 |
| CR80073 | 73 | 110 |
| CR80076 | 109 | 102 |
| CR80079 | 74 | 105 |
| CR80083 | 74 | 123 |
| CR80086 | 102 | 87 |
| CR80089 | 84 | 123 |
| CR80093 | 110 | 117 |
| CR80094 | 113 | 117 |
| CR80095 | 107 | 117 |
| CR80096 | 104 | 117 |
| CR80097 | 122 | 116 |
| CR80098 | 119 | 117 |
| CR80099 | 115 | 117 |
| CR83101 | 20 | 129 |
| CR83102 | 16 | 129 |
| CR83103 | 14 | 129 |
| CR83104 | 31 | 129 |
| CR83105 | 76 | 22 |
| CR83106 | 12 | 123 |
| CR83107 | 46 | 102 |
| CR83108 | 46 | 86 |
| CR83109 | 46 | 83 |
| CR83110 | 78 | 22 |
| CR83111 | 46 | 96 |
| CR83112 | 50 | 98 |
| CR83121 | 147 | 105 |
| CR83125 | 71 | 56 |
| CR83126 | 76 | 56 |
| CT46005 | 98 | 59 |
| CT80004 | 205 | 31 |
| CT80105 | 24 | 129 |
| CT80110 | 47 | 90 |

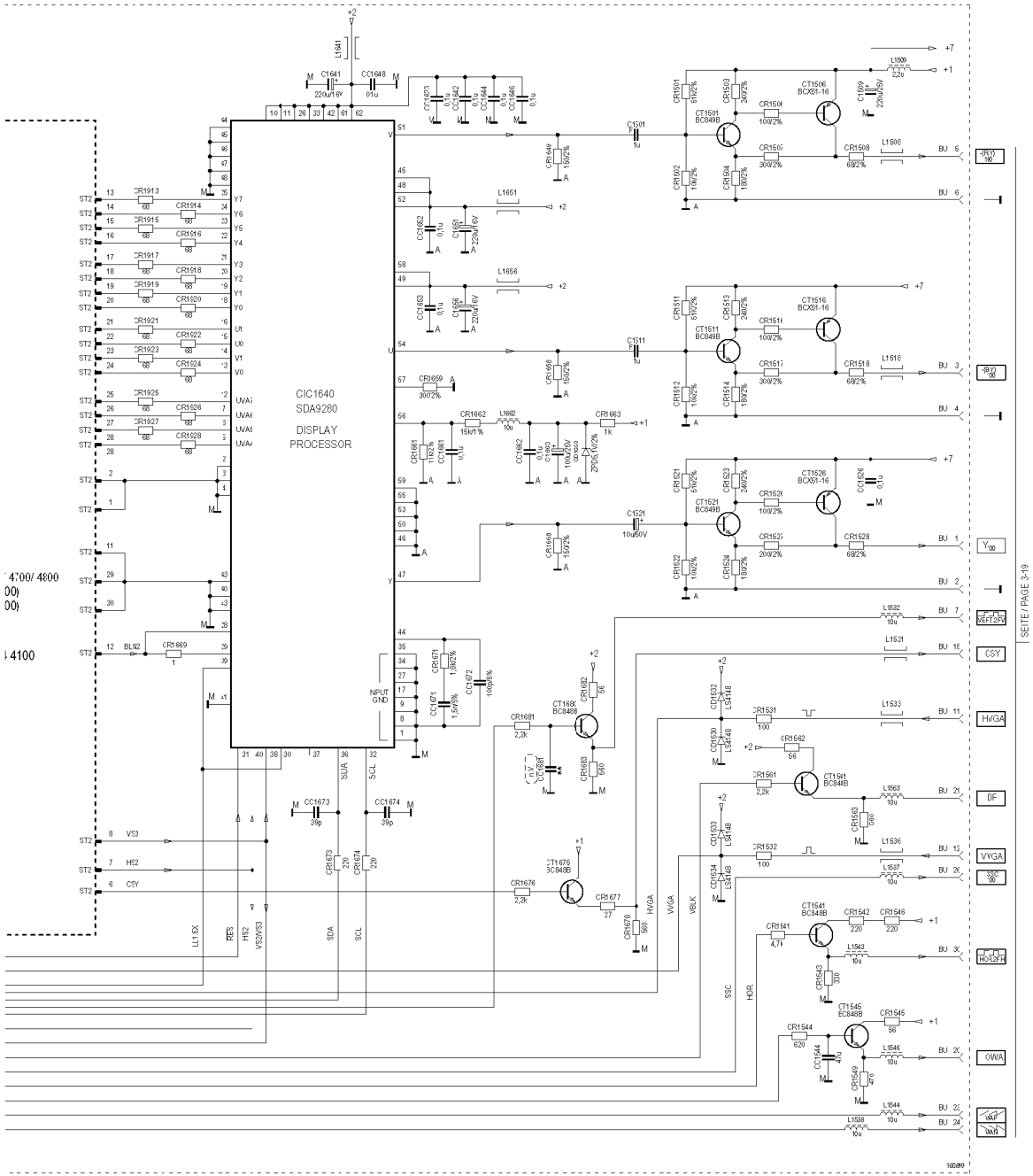
**Koordinaten für die Bauteile der Lötseite (Unterseite)**
**Coordinates of the components on the Solder Side (Bottom Side)**

| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| CBR'00 | 119 | 114 |
| CBR'01 | 148 | 106 |
| CBR'02 | 144 | 64 |
| CBR'04 | 92 | 132 |
| CBR'05 | 150 | 71 |
| CBR'06 | 138 | 52 |
| CC4C041 | 8 | 125 |
| CC4E011 | 126 | 60 |
| CC4E012 | 129 | 60 |
| CC4E013 | 132 | 60 |
| CC4E014 | 117 | 54 |
| CC4E015 | 113 | 54 |
| CC4E019 | 112 | 85 |
| CC46025 | 112 | 81 |
| CC4E041 | 143 | 48 |
| CC4E042 | 143 | 44 |
| CC4E043 | 143 | 42 |
| CC4E046 | 160 | 46 |
| CC4E047 | 157 | 46 |
| CC4E048 | 154 | 46 |
| CC4E052 | 151 | 8 |
| CC4E053 | 148 | 8 |
| CC4E054 | 141 | 15 |
| CC4E101 | 155 | 54 |
| CC4E122 | 144 | 70 |
| CC4E133 | 170 | 52 |
| CC4E136 | 167 | 52 |
| CC4E138 | 161 | 52 |
| CC4E211 | 23 | 28 |
| CC4E219 | 40 | 25 |
| CC4E227 | 37 | 73 |
| CC4E233 | 48 | 34 |
| CC4E238 | 44 | 38 |
| CC4E239 | 45 | 57 |
| CC4E246 | 38 | 49 |
| CC4E247 | 46 | 31 |
| CC4E251 | 46 | 95 |
| CC46254 | 16 | 71 |
| CC46258 | 16 | 82 |
| CC46261 | 32 | 67 |
| CC80001 | 64 | 73 |
| CC80002 | 73 | 34 |
| CC80003 | 73 | 37 |
| CC80004 | 60 | 95 |
| CC80008 | 60 | 90 |
| CC80011 | 111 | 102 |
| CC80016 | 112 | 114 |
| CC80019 | 92 | 110 |
| CC80020 | 126 | 104 |
| CC80022 | 171 | 8 |
| CC80023 | 101 | 109 |
| CC80024 | 199 | 8 |
| CC80025 | 113 | 139 |
| CC80026 | 166 | 8 |
| CC80031 | 160 | 8 |
| CC80033 | 157 | 8 |
| CC80036 | 134 | 113 |
| CC80040 | 211 | 38 |
| CC80041 | 196 | 103 |
| CC80042 | 8 | 119 |
| CC80044 | 163 | 8 |
| CC80049 | 94 | 120 |
| CC80054 | 64 | 48 |
| CC80061 | 99 | 103 |
| CC80063 | 85 | 114 |
| CC80064 | 91 | 122 |
| CC80066 | 87 | 106 |
| CC80067 | 96 | 104 |
| CC80068 | 93 | 104 |
| CC80071 | 48 | 140 |
| CC80080 | 196 | 8 |
| CC80116 | 22 | 136 |
| CC80121 | 176 | 8 |
| CC80122 | 180 | 8 |
| CC80123 | 185 | 8 |
| CIC46040 | 153 | 38 |
| CIC46100 | 148 | 54 |
| CIC46215 | 32 | 28 |
| CIC46230 | 43 | 70 |
| CIC46245 | 46 | 48 |
| CIC46250 | 51 | 23 |
| CR46009 | 126 | 39 |
| CR46010 | 123 | 39 |
| CR46014 | 155 | 30 |
| CR46015 | 125 | 35 |
| CR46016 | 117 | 61 |
| CR46017 | 119 | 61 |
| CR46018 | 122 | 61 |
| CR46031 | 152 | 30 |
| CR46032 | 150 | 30 |
| CR46033 | 147 | 30 |
| CR46034 | 157 | 30 |
| CR46048 | 117 | 67 |
| CR46049 | 120 | 67 |
| CR46050 | 123 | 67 |
| CR46056 | 151 | 47 |
| CR46057 | 159 | 30 |
| CR46103 | 149 | 62 |
| CR46126 | 154 | 71 |
| CR46127 | 157 | 71 |
| CR46128 | 159 | 71 |
| CR46129 | 162 | 71 |
| CR46133 | 173 | 52 |
| CR46134 | 171 | 38 |
| CR46136 | 164 | 52 |
| CR46137 | 169 | 38 |
| CR46138 | 158 | 52 |
| CR46139 | 166 | 38 |
| CR46201 | 9 | 39 |
| CR46202 | 8 | 54 |
| CR46211 | 23 | 33 |
| CR46212 | 20 | 52 |
| CR46213 | 20 | 54 |
| CR46214 | 20 | 49 |
| CR46215 | 26 | 47 |
| CR46216 | 20 | 46 |
| CR46217 | 20 | 43 |
| CR46218 | 20 | 41 |
| CR46219 | 35 | 20 |
| CR46220 | 28 | 47 |
| CR46221 | 25 | 41 |
| CR46222 | 52 | 30 |
| CR46224 | 40 | 79 |
| CR46226 | 44 | 79 |
| CR46227 | 33 | 73 |
| CR46228 | 35 | 78 |
| CR46229 | 47 | 79 |
| CR46230 | 55 | 36 |
| CR46231 | 37 | 68 |
| CR46232 | 33 | 68 |
| CR46233 | 53 | 36 |
| CR46234 | 58 | 37 |
| CR46236 | 47 | 38 |
| CR46237 | 51 | 57 |
| CR46238 | 41 | 38 |
| CR46239 | 48 | 57 |
| CR46240 | 60 | 17 |
| CR46241 | 49 | 38 |
| CR46242 | 54 | 48 |
| CR46245 | 47 | 15 |
| CR46246 | 49 | 15 |
| CR46247 | 57 | 15 |
| CR46248 | 59 | 23 |
| CR46249 | 38 | 45 |
| CR46250 | 54 | 57 |
| CR46251 | 48 | 95 |
| CR46254 | 16 | 68 |
| CR46257 | 16 | 85 |
| CR46261 | 52 | 64 |
| CR80000 | 91 | 38 |
| CR80002 | 64 | 78 |
| CR80003 | 64 | 82 |
| CR80006 | 63 | 95 |
| CR80007 | 52 | 95 |
| CR80008 | 63 | 90 |
| CR80011 | 117 | 106 |
| CR80012 | 115 | 103 |
| CR80015 | 109 | 114 |
| CR80016 | 115 | 114 |
| CR80017 | 33 | 141 |
| CR80019 | 100 | 114 |
| CR80020 | 119 | 102 |
| CR80022 | 106 | 116 |
| CR80023 | 106 | 113 |
| CR80024 | 119 | 107 |
| CR80028 | 46 | 144 |
| CR80029 | 15 | 102 |
| CR80030 | 6 | 131 |
| CR80035 | 7 | 96 |
| CR80038 | 89 | 81 |
| CR80040 | 14 | 124 |
| CR80041 | 136 | 100 |
| CR80042 | 14 | 118 |
| CR80044 | 106 | 109 |
| CR80045 | 23 | 127 |
| CR80048 | 142 | 109 |
| CR80049 | 94 | 124 |
| CR80050 | 44 | 130 |
| CR80051 | 79 | 75 |
| CR80052 | 73 | 72 |
| CR80053 | 73 | 69 |
| CR80055 | 66 | 58 |
| CR80059 | 86 | 89 |
| CR80061 | 103 | 100 |
| CR80062 | 103 | 98 |
| CR80063 | 26 | 132 |
| CR80064 | 153 | 106 |
| CR83065 | 81 | 77 |
| CR83066 | 84 | 77 |
| CR83068 | 95 | 100 |
| CR83070 | 138 | 104 |
| CR83074 | 97 | 115 |
| CR83080 | 60 | 140 |
| CR83081 | 68 | 131 |
| CR83082 | 54 | 132 |
| CR83084 | 36 | 141 |
| CR83085 | 32 | 126 |
| CR83087 | 44 | 132 |
| CR83088 | 85 | 120 |
| CR83090 | 27 | 115 |
| CR83091 | 27 | 122 |
| CR83092 | 20 | 111 |
| CR83100 | 100 | 83 |
| CR83113 | 88 | 35 |
| CR83116 | 22 | 132 |
| CR83117 | 25 | 132 |
| CR83119 | 121 | 116 |
| CR83120 | 122 | 132 |
| CR83122 | 145 | 106 |
| CR83123 | 85 | 101 |
| CT80005 | 56 | 94 |
| CT80010 | 115 | 108 |
| CT80020 | 114 | 119 |
| CT80025 | 39 | 132 |
| CT80035 | 137 | 109 |
| CT80040 | 126 | 109 |
| CT80050 | 79 | 70 |
| CT80055 | 68 | 69 |
| CT80085 | 33 | 132 |
| CT80090 | 23 | 116 |
| CT80095 | 23 | 123 |

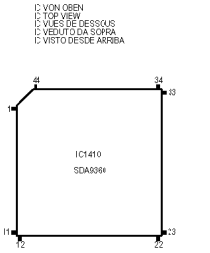
Platinenabbildungen und Schaltpläne / Layout of the PCBs and Circuit Diagrams CUC 1832 / 1930 / 1931

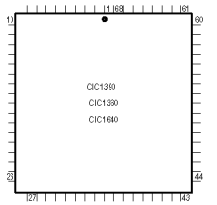
## Feature Box 29504 209 0100





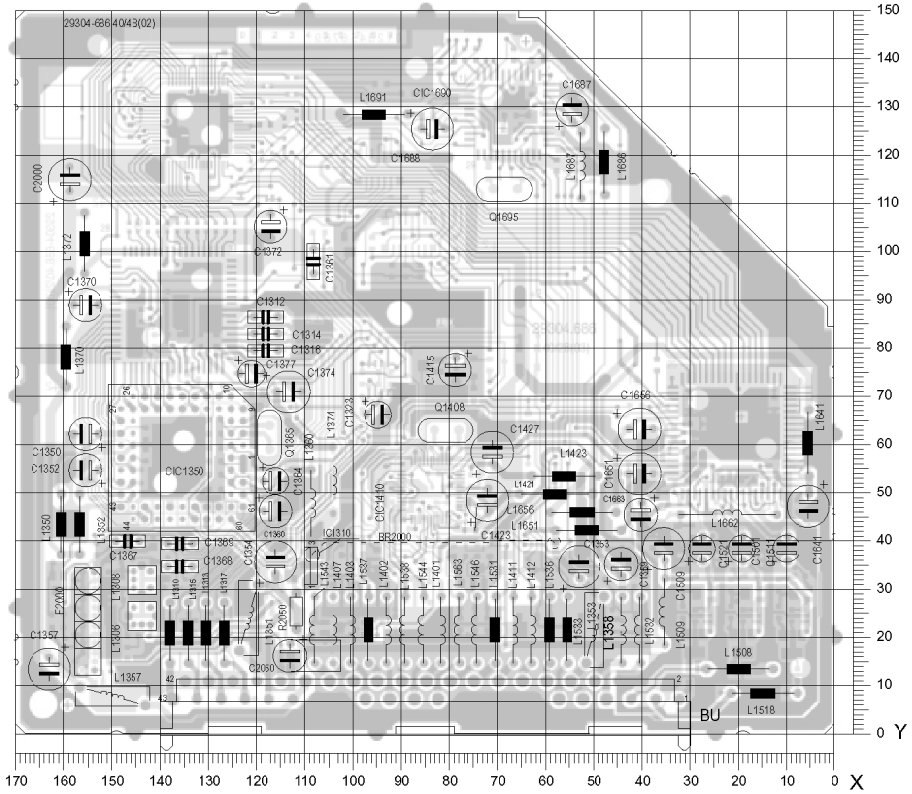

| | |
|---|---|
| 01 | Y(100) |
| 02 | MxSSE |
| 03 | -(B-Y)*100 |
| 04 | MxSSE |
| 05 | -(R-Y)*100 |
| 06 | MxSSE |
| 07 | VERT.2FV |
| 08 | +H (+4/5V) |
| 09 | +F (+2/5V) |
| 10 | +F (+2/5V) |
| 11 | HVGA |
| 12 | VVGA |
| 13 | MxSSE |
| 14 | SCL |
| 15 | MxSSE |
| 16 | SDA |
| 17 | MxSSE |
| 18 | CSY |
| 19 | MxSSE |
| 20 | OWA |
| 21 | DF |
| 22 | VG |
| 23 | VAP |
| 24 | VAN |
| 25 | IBEAM |
| 26 | SSC(110 |
| 27 | SS |
| 28 | REF |
| 29 | MxSSE |
| 30 | HOR.2FH |
| 31 | MxSSE |
| 32 | +N (+35V) |
| 33 | +N (+35V) |
| 34 | FBAS |
| 35 | CHROMA |
| 36 | +B(+1/12V) |
| 37 | DATA |
| 38 | MASSE ANALOG |
| 39 | R50 |
| 40 | MASSE ANALOG |
| 41 | G50 |
| 42 | MASSE ANALOG |
| 43 | B50 |




29504 103 3800 + 29305 014 4000
29504 103 4100 + 29305 014 4´00
29504 103 4300 + 29305 014 4500
29504 103 4400 + 29305 014 4700
29504 209 0100 + 29305 014 4´00
29504 209 0400 + 29305 014 4700
29504 209 0900 + 29305 014 4800

**Bestückungsseite, Ansicht von oben**
**Component Side, Top View**

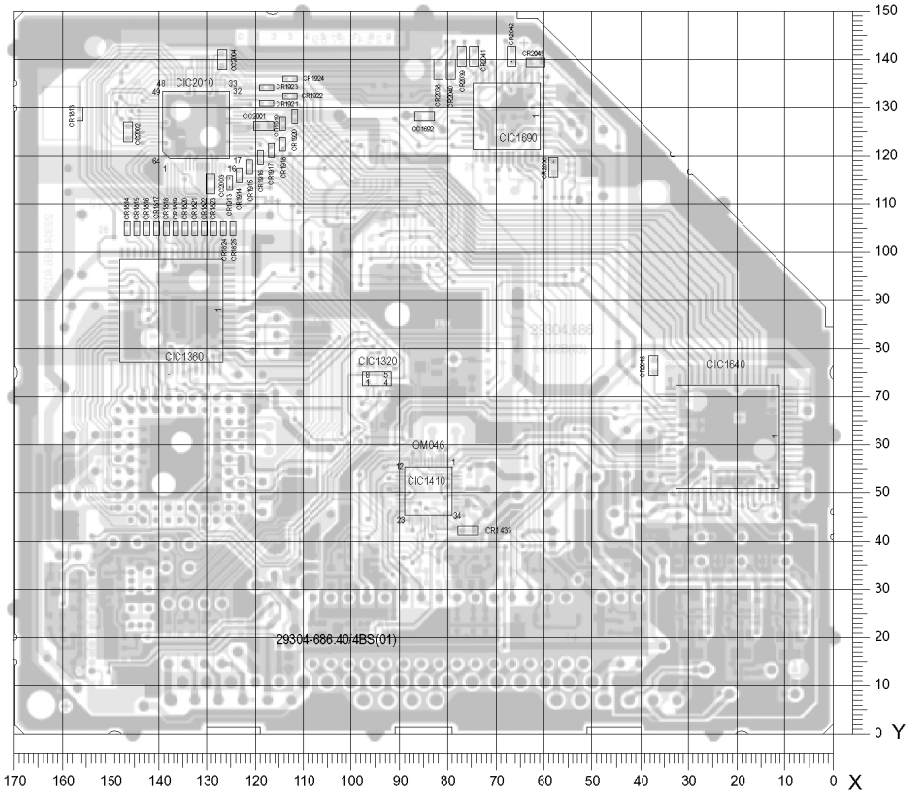



**Koordinaten für die Bauteile der Bestückungsseite (Oberseite)**
**Coordinates of the Components on the Components Side (Top Side)**

| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| BU | 85 | 1 |
| C1312 | 118 | 86 |
| C1314 | 118 | 83 |
| C1316 | 118 | 79 |
| C1323 | 95 | 66 |
| C1350 | 156 | 62 |
| C1352 | 156 | 54 |
| C1353 | 54 | 34 |
| C1354 | 116 | 35 |
| C1357 | 164 | 14 |
| C1359 | 45 | 35 |
| C1360 | 117 | 46 |
| C1361 | 109 | 98 |
| C1364 | 116 | 53 |
| C1367 | 147 | 40 |
| C1368 | 136 | 35 |
| C1369 | 136 | 39 |
| C1370 | 156 | 89 |
| C1372 | 117 | 105 |
| C1374 | 114 | 71 |
| C1377 | 122 | 75 |
| C1415 | 79 | 75 |
| C1423 | 72 | 48 |
| C1427 | 72 | 58 |
| C1501 | 20 | 38 |
| C1509 | 36 | 38 |
| C1511 | 11 | 38 |
| C1521 | 28 | 38 |
| C1641 | 6 | 47 |
| C1651 | 41 | 64 |
| C1656 | 41 | 63 |
| C1663 | 41 | 45 |
| C1687 | 53 | 129 |
| C1688 | 84 | 125 |
| C2000 | 159 | 114 |
| C2050 | 113 | 16 |
| CIC1350 | 136 | 57 |
| F2000 | 156 | 23 |
| IC1310 | 109 | 35 |
| L1306 | 144 | 24 |
| L1308 | 144 | 32 |
| L1310 | 139 | 21 |
| L1313 | 131 | 21 |
| L1315 | 135 | 21 |
| L1317 | 127 | 21 |
| L1350 | 161 | 43 |
| L1351 | 122 | 44 |
| L1352 | 157 | 43 |
| L1353 | 50 | 21 |
| L1357 | 150 | 8 |
| L1358 | 45 | 21 |
| L1360 | 109 | 48 |
| L1370 | 160 | 78 |
| L1372 | 156 | 102 |
| L1374 | 105 | 52 |
| L1401 | 82 | 21 |
| L1402 | 93 | 21 |
| L1403 | 101 | 21 |
| L1407 | 105 | 21 |
| L1411 | 67 | 21 |
| L1412 | 64 | 21 |
| L1421 | 59 | 50 |
| L1423 | 57 | 53 |
| L1308 | 20 | 43 |
| L1309 | 36 | 25 |
| L1518 | 15 | 8 |
| L1531 | 71 | 21 |
| L1532 | 41 | 21 |
| L1533 | 56 | 21 |
| L1536 | 60 | 21 |
| L1537 | 97 | 21 |
| L1538 | 90 | 21 |
| L1543 | 108 | 21 |
| L1544 | 86 | 21 |
| L1546 | 75 | 21 |
| L1563 | 79 | 21 |
| L1641 | 6 | 60 |
| L1651 | 52 | 42 |
| L1656 | 53 | 46 |
| L1662 | 23 | 45 |
| L1686 | 48 | 118 |
| L1687 | 53 | 118 |
| L1691 | 96 | 128 |
| Q1365 | 118 | 61 |
| Q1408 | 81 | 63 |
| Q1695 | 69 | 113 |
| R2050 | 112 | 25 |



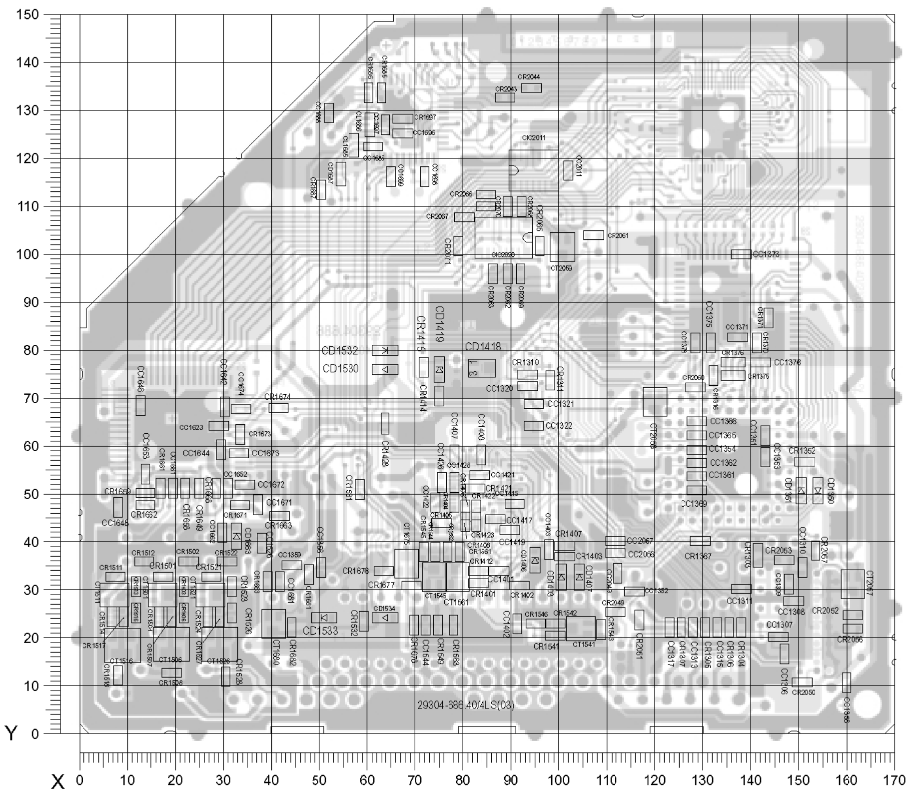





**Koordinaten für die Bauteile der Lötseite (Unterseite)**
**Coordinates of the components on the Solder Side (Bottom Side)**

| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| CC1692 | 85 | 128 |
| CC2001 | 119 | 126 |
| CC2002 | 147 | 125 |
| CC2003 | 133 | 114 |
| CC2004 | 127 | 140 |
| CIC1320 | 95 | 74 |
| CIC1360 | 133 | 88 |
| CIC1410 | 85 | 50 |
| CIC1640 | 22 | 62 |
| CIC1690 | 63 | 128 |
| CIC2010 | 133 | 126 |
| CR1433 | 73 | 42 |
| CR1813 | 157 | 129 |
| CR1814 | 147 | 105 |
| CR1815 | 145 | 105 |
| CR1816 | 143 | 105 |
| CR1817 | 141 | 105 |
| CR1818 | 139 | 105 |
| CR1819 | 137 | 105 |
| CR1820 | 135 | 105 |
| CR1821 | 133 | 105 |
| CR1822 | 131 | 105 |
| CR1823 | 129 | 105 |
| CR1824 | 127 | 105 |
| CR1825 | 125 | 105 |
| CR1913 | 126 | 114 |
| CR1914 | 124 | 116 |
| CR1915 | 122 | 117 |
| CR1916 | 119 | 120 |
| CR1917 | 117 | 121 |
| CR1918 | 115 | 122 |
| CR1919 | 115 | 127 |
| CR1920 | 112 | 128 |
| CR1921 | 118 | 131 |
| CR1922 | 113 | 132 |
| CR1923 | 118 | 134 |
| CR1924 | 113 | 136 |
| CR2036 | 59 | 117 |
| CR2038 | 82 | 138 |
| CR2039 | 77 | 140 |
| CR2040 | 80 | 138 |
| CR2041 | 75 | 140 |
| CR2042 | 67 | 140 |
| CR2045 | 62 | 139 |
| CR2046 | 38 | 76 |

**Lötseite, Ansicht von unten**
**Solder Side, Bottom View**







## Koordinaten für die Bauteile der Lötseite (Unterseite)
## Coordinates of the components on the Solder Side (Bottom Side)

| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| CC1306 | 148 | 17 |
| CC1307 | 146 | 20 |
| CC1308 | 149 | 27 |
| CC1309 | 149 | 31 |
| CC1310 | 151 | 35 |
| CC1311 | 139 | 30 |
| CC1313 | 129 | 22 |
| CC1315 | 133 | 22 |
| CC1317 | 124 | 22 |
| CC1320 | 94 | 72 |
| CC1321 | 95 | 69 |
| CC1322 | 95 | 64 |
| CC1351 | 143 | 62 |
| CC1352 | 116 | 30 |
| CC1353 | 143 | 58 |
| CC1354 | 129 | 59 |
| CC1356 | 51 | 35 |
| CC1358 | 160 | 11 |
| CC1359 | 45 | 35 |
| CC1361 | 129 | 54 |
| CC1362 | 129 | 56 |
| CC1365 | 129 | 62 |
| CC1366 | 129 | 65 |
| CC1369 | 129 | 50 |
| CC1371 | 138 | 83 |
| CC1373 | 139 | 100 |
| CC1375 | 132 | 81 |
| CC1376 | 142 | 77 |
| CC1378 | 129 | 81 |
| CC1401 | 88 | 34 |
| CC1402 | 92 | 23 |
| CC1403 | 99 | 38 |
| CC1407 | 79 | 58 |
| CC1408 | 84 | 58 |
| CC1415 | 91 | 48 |
| CC1417 | 87 | 45 |
| CC1419 | 90 | 42 |
| CC1421 | 84 | 54 |
| CC1422 | 75 | 48 |
| CC1426 | 76 | 52 |
| CC1428 | 79 | 52 |

| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| CC1526 | 39 | 40 |
| CC1544 | 73 | 22 |
| CC1623 | 29 | 64 |
| CC1642 | 31 | 68 |
| CC1644 | 30 | 59 |
| CC1646 | 13 | 68 |
| CC1648 | 9 | 47 |
| CC1652 | 32 | 51 |
| CC1653 | 14 | 54 |
| CC1661 | 20 | 51 |
| CC1662 | 30 | 42 |
| CC1671 | 38 | 48 |
| CC1672 | 35 | 52 |
| CC1673 | 34 | 58 |
| CC1674 | 34 | 68 |
| CC1681 | 42 | 32 |
| CC1685 | 62 | 122 |
| CC1686 | 53 | 129 |
| CC1696 | 68 | 125 |
| CC1697 | 64 | 127 |
| CC1698 | 72 | 116 |
| CC1699 | 65 | 116 |
| CC2011 | 102 | 117 |
| CC2020 | 85 | 110 |
| CC2049 | 113 | 33 |
| CC2056 | 112 | 38 |
| CC2057 | 112 | 40 |
| CD1350 | 155 | 50 |
| CD1351 | 151 | 50 |
| CD1403 | 101 | 32 |
| CD1406 | 96 | 36 |
| CD1407 | 105 | 32 |
| CD1418 | 85 | 76 |
| CD1419 | 75 | 76 |
| CD1530 | 64 | 76 |
| CD1532 | 64 | 80 |
| CD1533 | 52 | 24 |
| CD1534 | 64 | 24 |
| CD1663 | 33 | 41 |
| CD1687 | 55 | 116 |

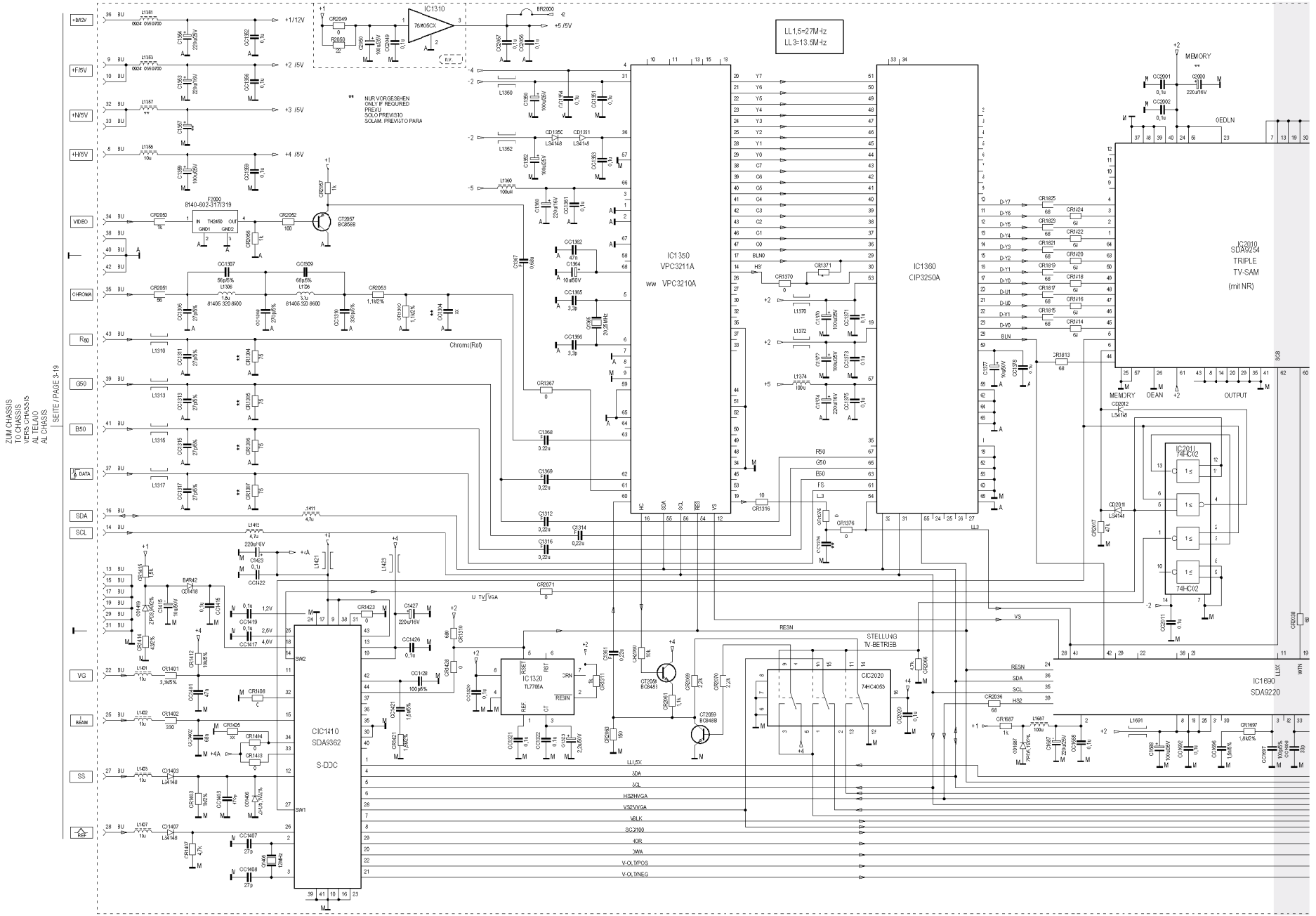
| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| CIC2011 | 95 | 117 |
| CIC2020 | 89 | 103 |
| CL1685 | 58 | 122 |
| CL1686 | 61 | 127 |
| CR1303 | 142 | 37 |
| CR1304 | 139 | 22 |
| CR1305 | 131 | 22 |
| CR1306 | 136 | 22 |
| CR1307 | 126 | 22 |
| CR1310 | 94 | 75 |
| CR1311 | 99 | 74 |
| CR1316 | 133 | 75 |
| CR1352 | 152 | 56 |
| CR1367 | 130 | 40 |
| CR1370 | 142 | 51 |
| CR1371 | 144 | 67 |
| CR1375 | 137 | 75 |
| CR1376 | 137 | 77 |
| CR1401 | 84 | 31 |
| CR1402 | 92 | 31 |
| CR1403 | 102 | 37 |
| CR1404 | 79 | 48 |
| CR1405 | 76 | 44 |
| CR1406 | 81 | 46 |
| CR1407 | 102 | 39 |
| CR1408 | 81 | 44 |
| CR1412 | 84 | 34 |
| CR1414 | 75 | 70 |
| CR1415 | 72 | 76 |
| CR1421 | 83 | 51 |
| CR1422 | 83 | 46 |
| CR1423 | 83 | 44 |
| CR1428 | 64 | 65 |
| CR1501 | 18 | 32 |
| CR1502 | 23 | 36 |
| CR1503 | 22 | 30 |
| CR1504 | 17 | 24 |
| CR1506 | 22 | 25 |
| CR1507 | 20 | 24 |
| CR1508 | 20 | 12 |

| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| CR1511 | 8 | 32 |
| CR1512 | 14 | 36 |
| CR1513 | 12 | 30 |
| CR1514 | 7 | 24 |
| CR1516 | 12 | 25 |
| CR1517 | 10 | 24 |
| CR1518 | 9 | 12 |
| CR1521 | 28 | 32 |
| CR1522 | 31 | 36 |
| CR1523 | 32 | 30 |
| CR1524 | 27 | 24 |
| CR1526 | 32 | 25 |
| CR1527 | 30 | 24 |
| CR1528 | 31 | 12 |
| CR1531 | 59 | 51 |
| CR1532 | 60 | 23 |
| CR1541 | 100 | 20 |
| CR1542 | 100 | 23 |
| CR1543 | 109 | 22 |
| CR1544 | 75 | 38 |
| CR1545 | 72 | 38 |
| CR1546 | 96 | 23 |
| CR1549 | 75 | 22 |
| CR1561 | 80 | 38 |
| CR1562 | 77 | 38 |
| CR1563 | 79 | 22 |
| CR1649 | 26 | 51 |
| CR1658 | 23 | 51 |
| CR1659 | 14 | 50 |
| CR1661 | 18 | 51 |
| CR1662 | 14 | 48 |
| CR1663 | 42 | 45 |
| CR1668 | 29 | 51 |
| CR1671 | 34 | 48 |
| CR1673 | 34 | 62 |
| CR1674 | 42 | 68 |
| CR1676 | 64 | 34 |
| CR1677 | 70 | 31 |
| CR1678 | 70 | 22 |
| CR1681 | 48 | 33 |
| CR1682 | 45 | 22 |

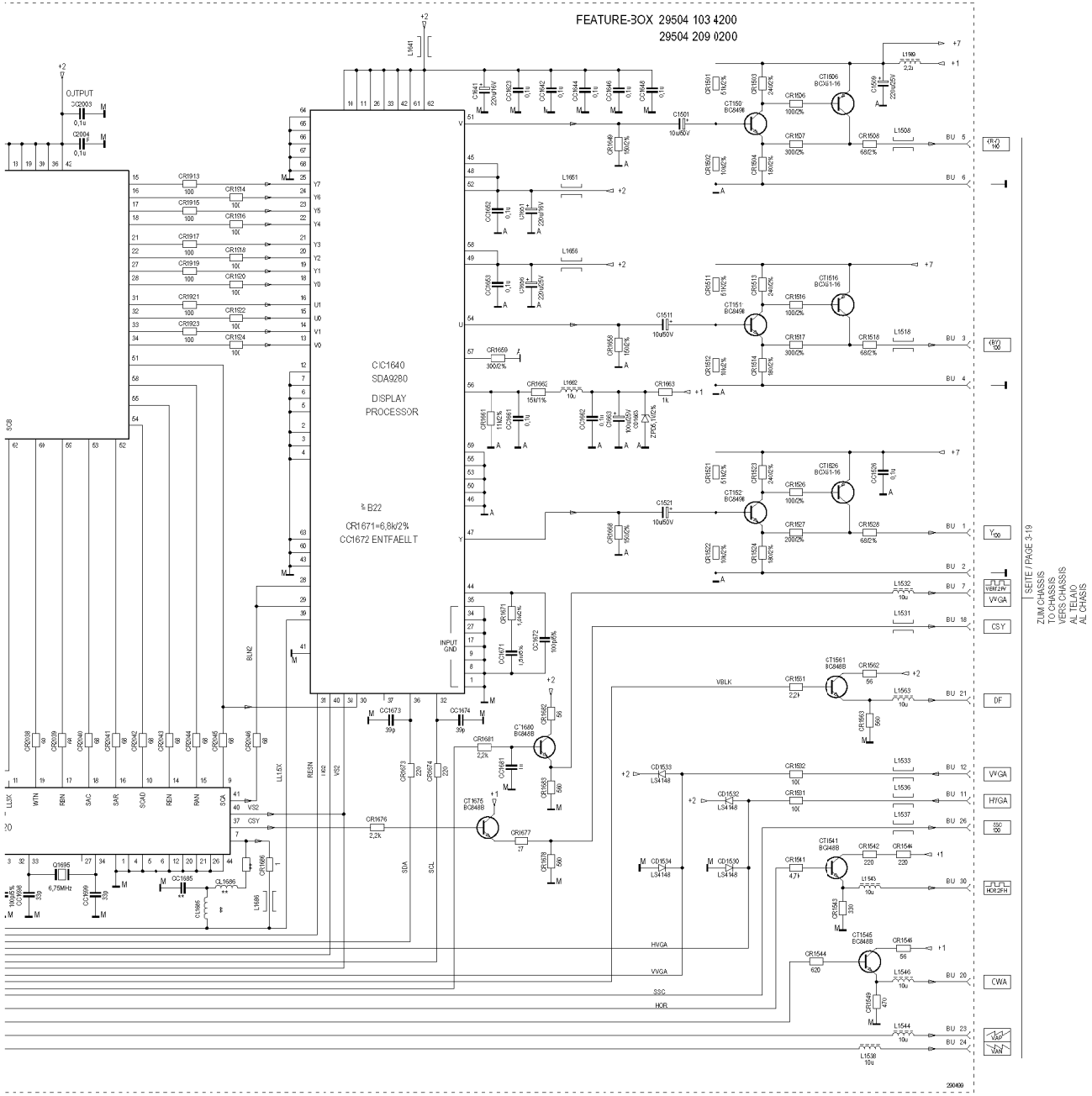
| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| CR1683 | 40 | 32 |
| CR1685 | 64 | 133 |
| CR1686 | 61 | 133 |
| CR1687 | 51 | 113 |
| CR1697 | 68 | 128 |
| CR2043 | 89 | 132 |
| CR2044 | 95 | 135 |
| CR2049 | 112 | 25 |
| CR2050 | 151 | 11 |
| CR2051 | 117 | 24 |
| CR2052 | 162 | 25 |
| CR2053 | 148 | 36 |
| CR2056 | 162 | 22 |
| CR2057 | 154 | 38 |
| CR2060 | 129 | 72 |
| CR2061 | 108 | 104 |
| CR2062 | 90 | 96 |
| CR2063 | 87 | 96 |
| CR2065 | 97 | 102 |
| CR2066 | 85 | 112 |
| CR2067 | 81 | 107 |
| CR2068 | 93 | 110 |
| CR2069 | 92 | 96 |
| CR2070 | 90 | 110 |
| CR2071 | 80 | 102 |
| CT1501 | 18 | 29 |
| CT1506 | 20 | 19 |
| CT1511 | 8 | 29 |
| CT1516 | 10 | 18 |
| CT1521 | 28 | 29 |
| CT1526 | 30 | 19 |
| CT1541 | 105 | 22 |
| CT1545 | 75 | 32 |
| CT1561 | 79 | 32 |
| CT1675 | 69 | 35 |
| CT1680 | 41 | 23 |
| CT2057 | 162 | 31 |
| CT2058 | 121 | 69 |
| CT2059 | 101 | 101 |

Platinenabbildungen und Schaltpläne / Layout of the PCBs and Circuit Diagrams CUC 1832 / 1930 / 1931

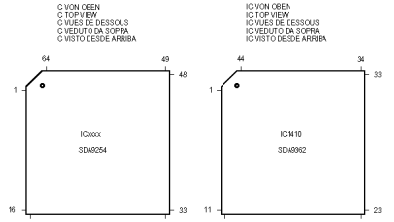
## Feature Box 29504 209 0200



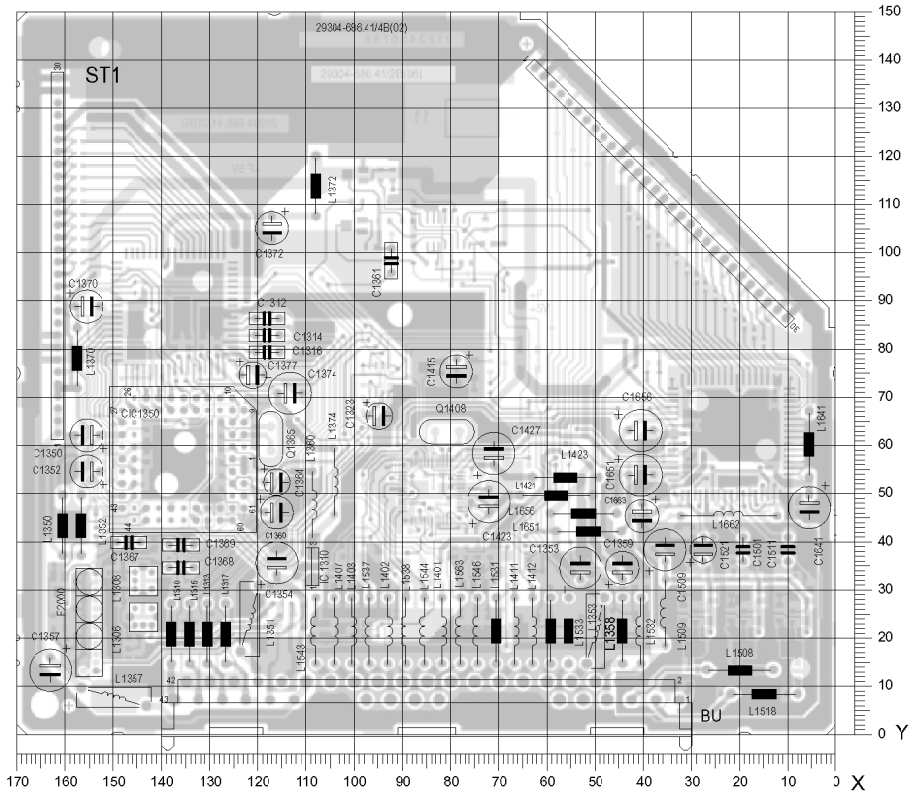
CUC 1832 / 1930 / 1931 Platinenabbildungen und Schaltpläne / Layout of the PCBs and Circuit Diagrams

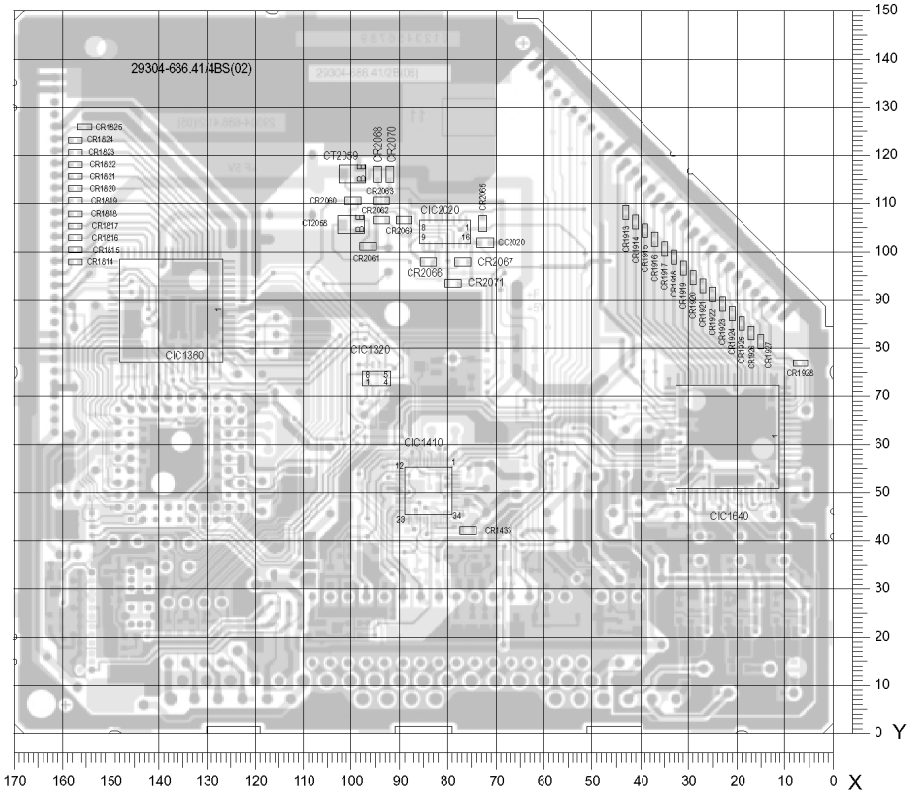


| BU- | |
|---|---|
| 01 | Y/100 |
| 02 | MASSE |
| 03 | -(B-Y)/100 |
| 04 | MASSE |
| 05 | -(R-Y)/100 |
| 06 | MASSE |
| 07 | VERT.2FV |
| 08 | +H (+4,6V) |
| 09 | +F (+26V) |
| 10 | +F (+26V) |
| 11 | HVGA |
| 12 | VVGA |
| 13 | MASSE |
| 14 | SCL |
| 15 | MASSE |
| 16 | SDA |
| 17 | MASSE |
| 18 | CSY |
| 19 | MASSE |
| 20 | CWA |
| 21 | DF |
| 22 | VG |
| 23 | VAP |
| 24 | VAN |
| 25 | IBEAM |
| 26 | SSC 100 |
| 27 | SS |
| 28 | REF |
| 29 | MASSE |
| 30 | HOR.2FH |
| 31 | MASSE |
| 32 | +N (+3/5V) |
| 33 | +N (+3/5V) |
| 34 | FBAS |
| 35 | CHROMA |
| 36 | +B(+1/1.7V) |
| 37 | I²C DATA 50 |
| 38 | MASSE ANALOG |
| 39 | G50 |
| 40 | MASSE ANALOG |
| 41 | B50 |
| 42 | MASSE ANALOG |
| 43 | R50 |



**Bestückungsseite, Ansicht von oben**
**Component Side, Top View**



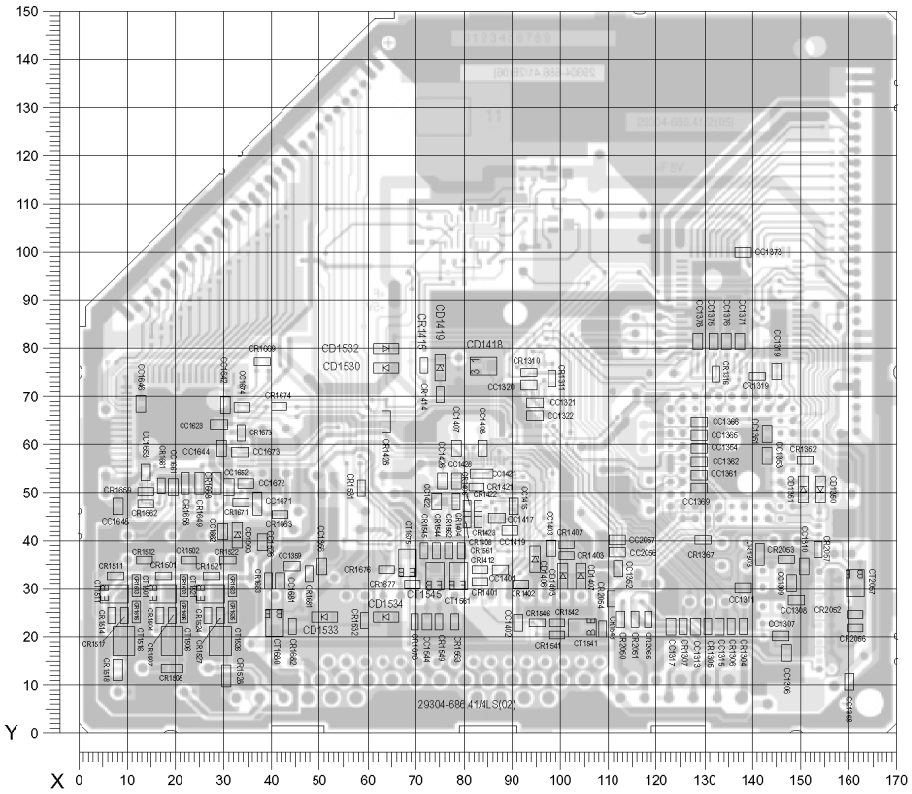

**Koordinaten für die Bauteile der Bestückungsseite (Oberseite)**
**Coordinates of the Components on the Components Side (Top Side)**

| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| BU | 86 | 2 |
| C1312 | 119 | 87 |
| C1314 | 119 | 84 |
| C1316 | 119 | 80 |
| C1323 | 96 | 67 |
| C1350 | 157 | 63 |
| C1352 | 157 | 55 |
| C1353 | 55 | 35 |
| C1354 | 117 | 36 |
| C1357 | 165 | 15 |
| C1359 | 46 | 35 |
| C1360 | 118 | 47 |
| C1361 | 94 | 99 |
| C1364 | 117 | 54 |
| C1367 | 148 | 41 |
| C1368 | 137 | 36 |
| C1369 | 137 | 40 |
| C1370 | 157 | 90 |
| C1372 | 118 | 106 |
| C1374 | 115 | 72 |
| C1377 | 123 | 76 |
| C1415 | 80 | 76 |
| C1423 | 73 | 49 |
| C1427 | 73 | 59 |
| C1501 | 21 | 39 |
| C1509 | 37 | 39 |
| C1511 | 12 | 39 |
| C1521 | 29 | 39 |
| C1641 | 7 | 48 |
| C1651 | 42 | 55 |
| C1656 | 42 | 64 |
| C1663 | 42 | 46 |
| CIC1350 | 137 | 58 |
| F2000 | 157 | 24 |
| IC1310 | 110 | 36 |
| L1306 | 145 | 25 |
| L1308 | 143 | 33 |
| L1310 | 140 | 22 |
| L1313 | 132 | 22 |
| L1315 | 136 | 22 |
| L1317 | 128 | 22 |
| L1350 | 162 | 44 |
| L1351 | 123 | 25 |
| L1352 | 158 | 44 |
| L1353 | 51 | 22 |
| L1357 | 151 | 9 |
| L1358 | 46 | 22 |
| L1360 | 110 | 49 |
| L1370 | 159 | 79 |
| L1372 | 109 | 115 |
| L1374 | 106 | 58 |
| L1401 | 83 | 22 |
| L1402 | 94 | 22 |
| L1403 | 102 | 22 |
| L1407 | 106 | 22 |
| L1411 | 68 | 22 |
| L1412 | 65 | 22 |
| L1421 | 60 | 51 |
| L1423 | 58 | 64 |
| L1508 | 21 | 4 |
| L1509 | 37 | 26 |
| L1518 | 16 | 9 |
| L1531 | 72 | 22 |
| L1532 | 42 | 22 |
| L1533 | 57 | 22 |
| L1536 | 61 | 22 |
| L1537 | 98 | 22 |
| L1538 | 91 | 22 |
| L1543 | 109 | 22 |
| L1544 | 87 | 22 |
| L1546 | 76 | 22 |
| L1563 | 80 | 22 |
| L1641 | 7 | 61 |
| L1651 | 53 | 43 |
| L1656 | 54 | 47 |
| L1662 | 24 | 46 |
| Q1365 | 119 | 62 |
| Q1408 | 82 | 64 |
| ST01 | 163 | 100 |
| ST02 | 38 | 113 |

**Koordinaten für die Bauteile der Lötseite (Unterseite)**
**Coordinates of the components on the Solder Side (Bottom Side)**

| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| CC2020 | 72 | 102 |
| CIC1320 | 94 | 74 |
| CIC1360 | 137 | 88 |
| CIC1410 | 84 | 50 |
| CIC1640 | 21 | 62 |
| CIC2020 | 83 | 104 |
| CR1433 | 75 | 42 |
| CR1814 | 157 | 98 |
| CR1815 | 157 | 100 |
| CR1816 | 157 | 103 |
| CR1817 | 157 | 105 |
| CR1818 | 157 | 108 |
| CR1819 | 157 | 111 |
| CR1820 | 157 | 113 |
| CR1821 | 157 | 115 |
| CR1822 | 157 | 118 |
| CR1823 | 157 | 121 |
| CR1824 | 157 | 123 |
| CR1825 | 155 | 126 |
| CR1913 | 43 | 108 |
| CR1914 | 41 | 106 |
| CR1915 | 38 | 104 |
| CR1916 | 37 | 103 |
| CR1917 | 34 | 100 |
| CR1918 | 33 | 99 |
| CR1919 | 31 | 96 |
| CR1920 | 28 | 95 |
| CR1921 | 27 | 93 |
| CR1922 | 25 | 91 |
| CR1923 | 23 | 89 |
| CR1924 | 20 | 87 |
| CR1925 | 18 | 85 |
| CR1926 | 17 | 83 |
| CR1927 | 15 | 81 |
| CR1928 | 6 | 77 |
| CR2060 | 99 | 111 |
| CR2061 | 96 | 101 |
| CR2062 | 93 | 106 |
| CR2063 | 93 | 111 |
| CR2065 | 72 | 106 |
| CR2066 | 84 | 98 |
| CR2067 | 76 | 98 |
| CR2068 | 94 | 116 |
| CR2069 | 88 | 106 |
| CR2070 | 91 | 116 |
| CR2071 | 78 | 93 |
| CT2053 | 99 | 105 |
| CT2059 | 99 | 116 |

**Lötseite, Ansicht von unten**
**Solder Side, Bottom View**





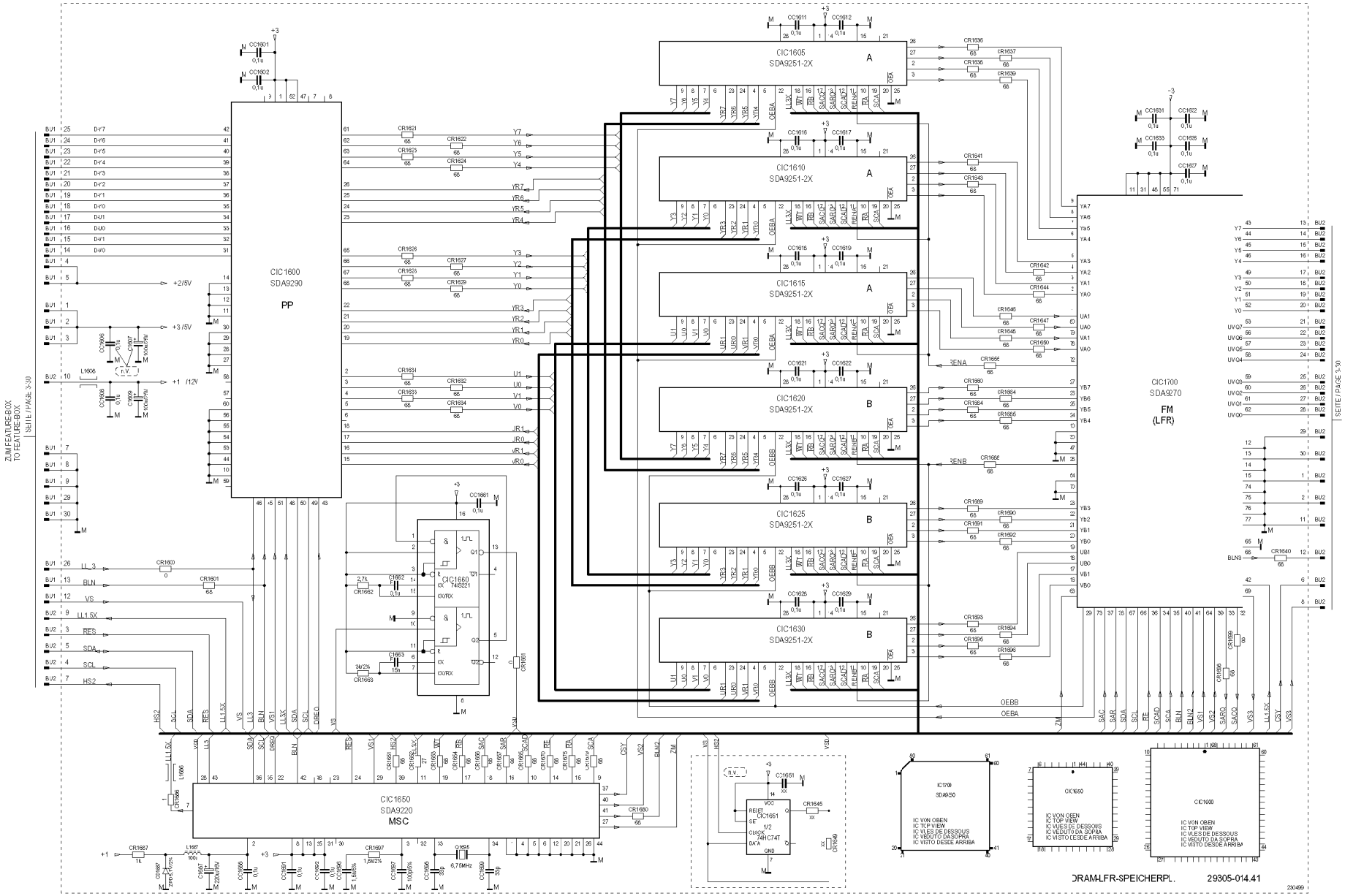



**Koordinaten für die Bauteile der Lötseite (Unterseite)**
**Coordinates of the components on the Solder Side (Bottom Side)**

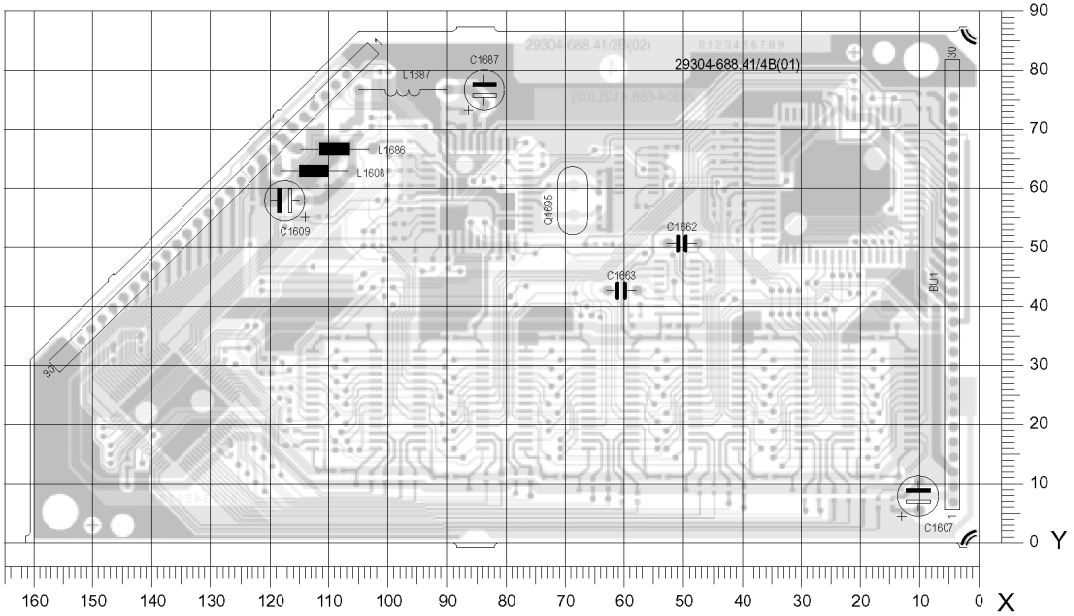
| Pos.-Nr. / Pos. No. | Koordinaten / Coordinates X | Y |
|---|---|---|
| CC1306 | 150 | 17 |
| CC1307 | 148 | 20 |
| CC1308 | 151 | 27 |
| CC1309 | 151 | 31 |
| CC1310 | 153 | 35 |
| CC1311 | 141 | 30 |
| CC1313 | 131 | 22 |
| CC1315 | 135 | 22 |
| CC1317 | 126 | 22 |
| CC1319 | 148 | 75 |
| CC1320 | 96 | 72 |
| CC1321 | 97 | 69 |
| CC1322 | 97 | 66 |
| CC1351 | 145 | 62 |
| CC1352 | 115 | 34 |
| CC1353 | 145 | 58 |
| CC1354 | 131 | 59 |
| CC1356 | 53 | 35 |
| CC1358 | 162 | 11 |
| CC1359 | 47 | 35 |
| CC1361 | 131 | 54 |
| CC1362 | 131 | 56 |
| CC1365 | 131 | 62 |
| CC1366 | 131 | 65 |
| CC1369 | 131 | 51 |
| CC1371 | 140 | 81 |
| CC1373 | 141 | 100 |
| CC1375 | 134 | 81 |
| CC1376 | 137 | 81 |
| CC1378 | 131 | 81 |
| CC1401 | 90 | 34 |
| CC1402 | 94 | 23 |
| CC1403 | 101 | 38 |
| CC1407 | 81 | 59 |
| CC1408 | 86 | 59 |
| CC1415 | 93 | 47 |
| CC1417 | 89 | 45 |
| CC1419 | 92 | 42 |
| CC1421 | 86 | 54 |
| CC1422 | *7 | 48 |
| CC1426 | *8 | 52 |
| CC1426 | 81 | 52 |
| CC1526 | 41 | 40 |
| CC1544 | *5 | 23 |
| CC1623 | 31 | 64 |
| CC1642 | 33 | 68 |
| CC1644 | 32 | 59 |
| CC1646 | 15 | 68 |
| CC1648 | 11 | 47 |
| CC1652 | 34 | 51 |
| CC1653 | 16 | 54 |
| CC1661 | 22 | 51 |
| CC1662 | 32 | 42 |
| CC1671 | 40 | 48 |
| CC1672 | 37 | 52 |
| CC1673 | 36 | 58 |
| CC1674 | 36 | 68 |
| CC1681 | 44 | 32 |
| CC2056 | 114 | 38 |
| CC2057 | 114 | 40 |
| CD1350 | 157 | 50 |
| CD1351 | 153 | 50 |
| CD1403 | 103 | 32 |
| CD1406 | 97 | 36 |
| CD1407 | 107 | 32 |
| CD1418 | 87 | 76 |
| CD1419 | *7 | 76 |
| CD1530 | 66 | 76 |
| CD1532 | 66 | 80 |
| CD1533 | 54 | 24 |
| CD1534 | 66 | 24 |
| CD1663 | 35 | 41 |
| CR1303 | 144 | 37 |
| CR1304 | 141 | 22 |
| CR1305 | 133 | 22 |
| CR1306 | 138 | 22 |
| CR1307 | 128 | 22 |
| CR1310 | 96 | 75 |
| CR1311 | 101 | 74 |
| CR1316 | 135 | 75 |
| CR1319 | 143 | 74 |
| CR1352 | 153 | 56 |
| CR1367 | 132 | 40 |
| CR1401 | 86 | 31 |
| CR1402 | 94 | 31 |
| CR1403 | 104 | 37 |
| CR1404 | 81 | 48 |
| CR1406 | 83 | 46 |
| CR1407 | 104 | 39 |
| CR1408 | 83 | 44 |
| CR1412 | 86 | 34 |
| CR1414 | 77 | 70 |
| CR1415 | 74 | 76 |
| CR1421 | 85 | 51 |
| CR1422 | 85 | 46 |
| CR1423 | 85 | 44 |
| CR1428 | 66 | 65 |
| CR1501 | 20 | 32 |
| CR1502 | 25 | 36 |
| CR1503 | 24 | 30 |
| CR1504 | 19 | 24 |
| CR1506 | 24 | 25 |
| CR1507 | 22 | 24 |
| CR1508 | 22 | 13 |
| CR1511 | 10 | 32 |
| CR1512 | 16 | 36 |
| CR1513 | 14 | 30 |
| CR1514 | 9 | 24 |
| CR1516 | 14 | 25 |
| CR1517 | 12 | 24 |
| CR1518 | 11 | 13 |
| CR1521 | 30 | 32 |
| CR1522 | 33 | 36 |
| CR1523 | 34 | 30 |
| CR1524 | 29 | 24 |
| CR1526 | 34 | 25 |
| CR1527 | 32 | 24 |
| CR1528 | 33 | 12 |
| CR1531 | 61 | 51 |
| CR1532 | 62 | 23 |
| CR1541 | 102 | 20 |
| CR1542 | 102 | 23 |
| CR1543 | 111 | 22 |
| CR1544 | 77 | 38 |
| CR1545 | 74 | 38 |
| CR1546 | 98 | 23 |
| CR1549 | 77 | 23 |
| CR1561 | 82 | 38 |
| CR1562 | 79 | 38 |
| CR1563 | 81 | 23 |
| CR1649 | 28 | 52 |
| CR1658 | 25 | 52 |
| CR1659 | 16 | 59 |
| CR1661 | 20 | 51 |
| CR1662 | 16 | 48 |
| CR1663 | 44 | 45 |
| CR1668 | 31 | 52 |
| CR1669 | 41 | 77 |
| CR1671 | 36 | 48 |
| CR1673 | 36 | 62 |
| CR1674 | 44 | 68 |
| CR1676 | 65 | 34 |
| CR1677 | 72 | 31 |
| CR1678 | 72 | 23 |
| CR1681 | 50 | 33 |
| CR1682 | 47 | 22 |
| CR1683 | 42 | 32 |
| CR2050 | 115 | 24 |
| CR2051 | 118 | 24 |
| CR2052 | 164 | 25 |
| CR2053 | 150 | 36 |
| CR2054 | 113 | 28 |
| CR2055 | 121 | 24 |
| CR2056 | 164 | 22 |
| CR2057 | 156 | 38 |
| CT1501 | 20 | 29 |
| CT1506 | 22 | 19 |
| CT1511 | 10 | 29 |
| CT1516 | 12 | 19 |
| CT1521 | 30 | 29 |
| CT1526 | 32 | 19 |
| CT1541 | 107 | 22 |
| CT1545 | 77 | 32 |
| CT1561 | 81 | 32 |
| CT1675 | 71 | 35 |
| CT1680 | 43 | 23 |
| CT2057 | 164 | 31 |

Platinenabbildungen und Schaltpläne / Layout of the PCBs and Circuit Diagrams CUC 1832 / 1930 / 1931

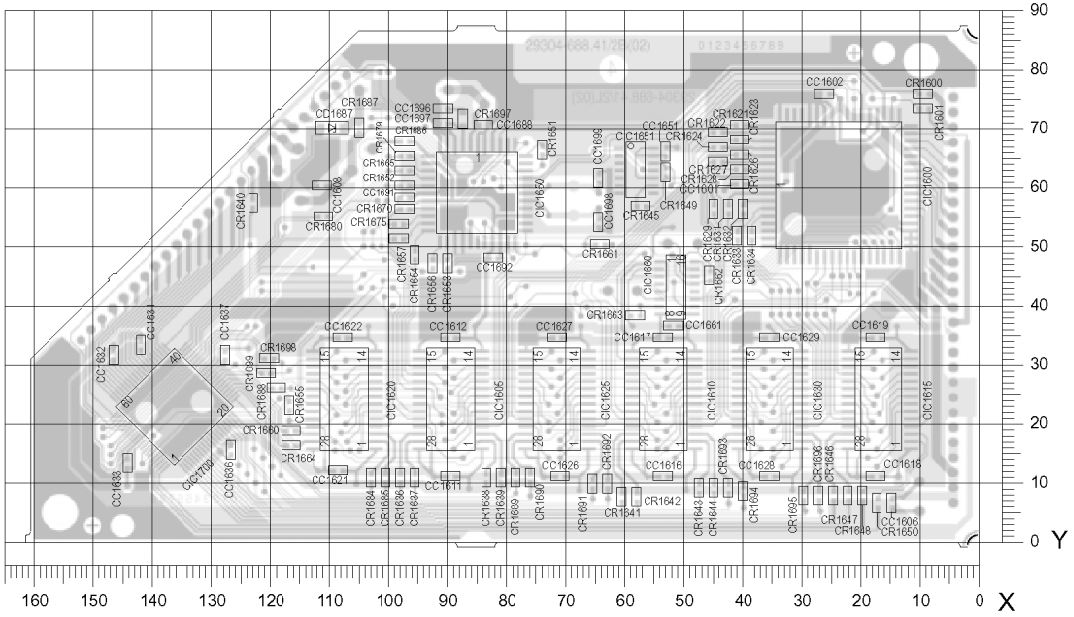
## LFR-Platte / LFR Board



**Bestückungsseite, Ansicht von oben**
**Component Side, Top View**




**Lötseite, Ansicht von unten**
**Solder Side, Bottom View**




**Koordinaten für die Bauteile der Bestückungsseite (Oberseite)**
**Coordinates of the Components on the Components Side (Top Side)**

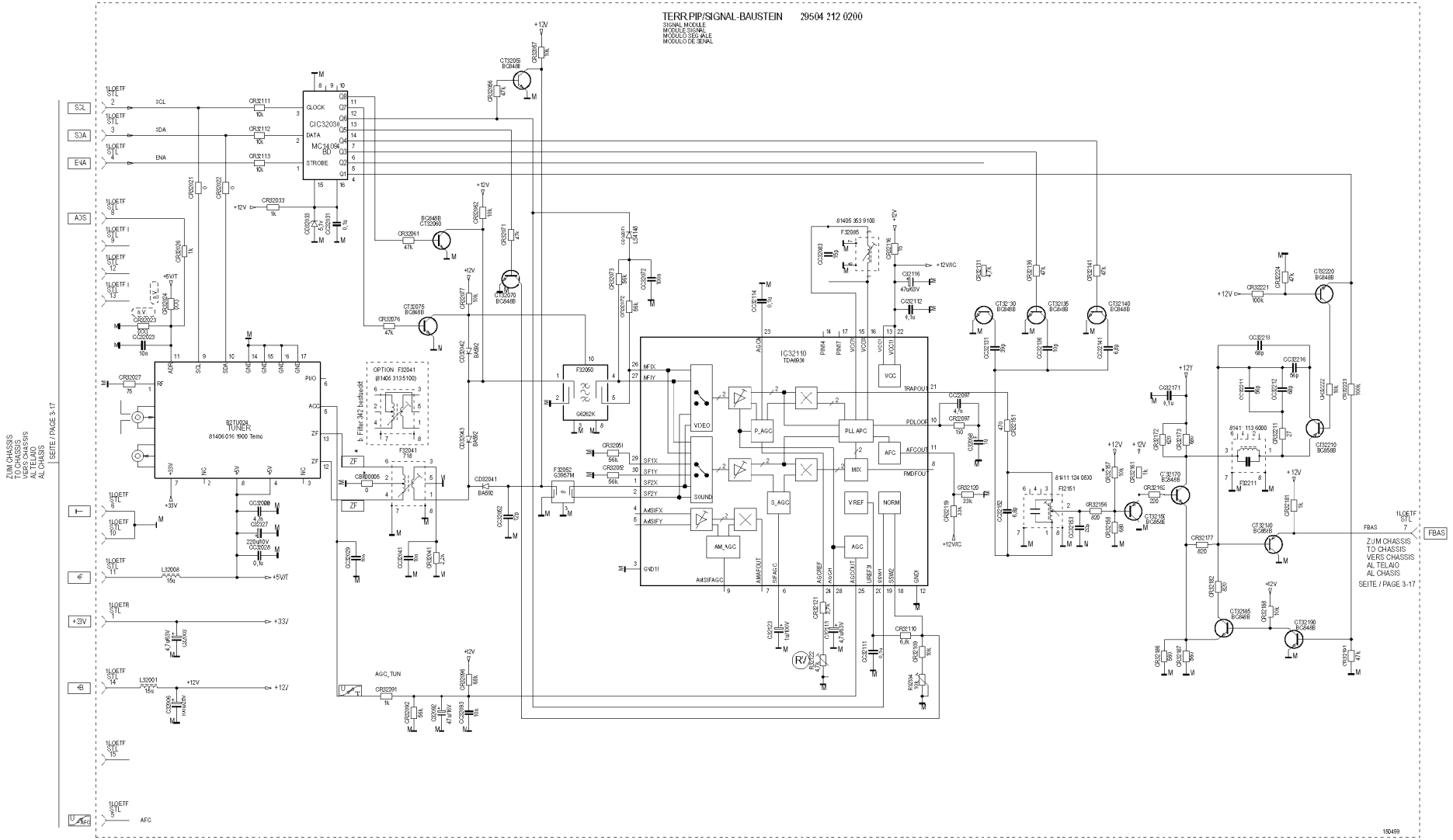
| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| BU01 | 5 | 43 |
| BU02 | 130 | 57 |
| C1607 | 10 | 8 |
| C1609 | 117 | 58 |
| C1662 | 50 | 51 |
| C1663 | 61 | 42 |
| C1687 | 84 | 76 |
| L1608 | 113 | 63 |
| L1686 | 109 | 67 |
| L1687 | 98 | 77 |
| Q1695 | 69 | 58 |

**Koordinaten für die Bauteile der Lötseite (Unterseite)**
**Coordinates of the components on the Solder Side (Bottom Side)**

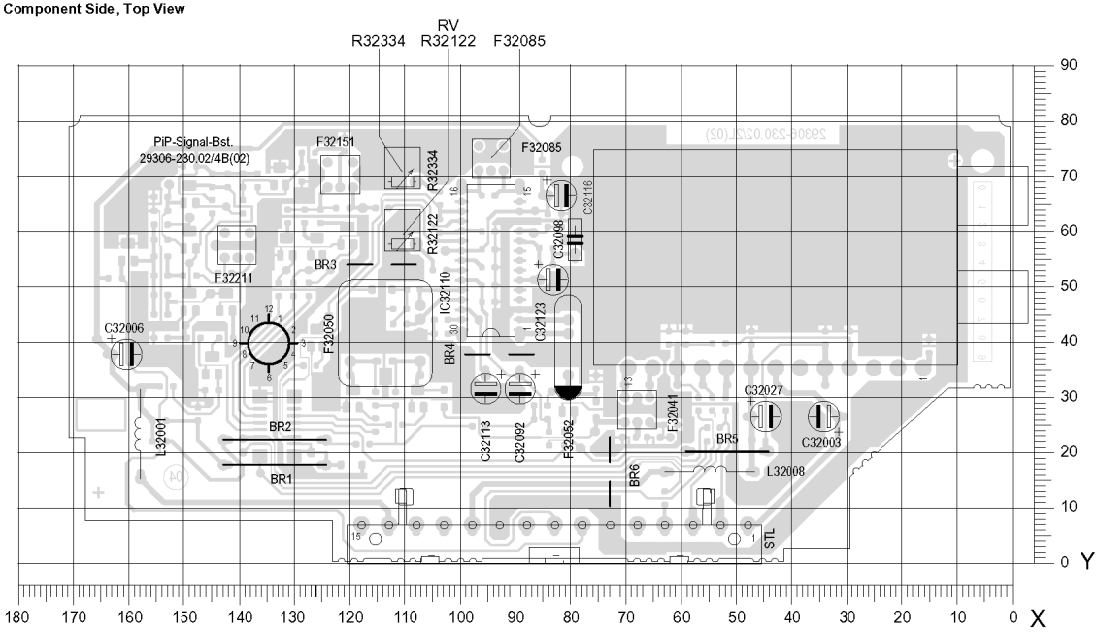
| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| CC1601 | 41 | 61 |
| CC1602 | 26 | 76 |
| CC1606 | 15 | 7 |
| CC1608 | 111 | 60 |
| CC1611 | 90 | 11 |
| CC1612 | 90 | 34 |
| CC1616 | 53 | 11 |
| CC1617 | 53 | 34 |
| CC1618 | 18 | 11 |
| CC1619 | 18 | 34 |
| CC1621 | 108 | 12 |
| CC1622 | 108 | 34 |
| CC1626 | 71 | 11 |
| CC1627 | 72 | 34 |
| CC1628 | 35 | 11 |
| CC1629 | 35 | 34 |
| CC1631 | 142 | 33 |
| CC1632 | 147 | 32 |
| CC1633 | 144 | 13 |
| CC1636 | 127 | 15 |
| CC1637 | 128 | 32 |
| CC1651 | 53 | 66 |
| CC1661 | 52 | 37 |
| CC1688 | 84 | 71 |
| CC1691 | 97 | 58 |
| CC1692 | 82 | 48 |
| CC1696 | 91 | 73 |
| CC1697 | 91 | 71 |
| CC1698 | 55 | 54 |
| CC1699 | 65 | 62 |
| CD1687 | 109 | 70 |
| CIC1600 | 24 | 60 |
| CIC1605 | 90 | 24 |
| CIC1610 | 54 | 24 |
| CIC1615 | 17 | 24 |
| CIC1620 | 103 | 24 |
| CIC1625 | 72 | 24 |
| CIC1630 | 33 | 24 |
| CIC1650 | 85 | 59 |
| CIC1651 | 53 | 63 |
| CIC1660 | 51 | 43 |
| CIC1700 | 133 | 23 |
| CR1600 | 10 | 76 |
| CR1601 | 10 | 73 |
| CR1621 | 41 | 71 |
| CR1622 | 41 | 69 |
| CR1623 | 41 | 68 |
| CR1624 | 44 | 67 |
| CR1626 | 41 | 66 |
| CR1627 | 44 | 64 |
| CR1628 | 41 | 63 |
| CR1629 | 45 | 56 |
| CR1631 | 43 | 56 |
| CR1632 | 43 | 56 |
| CR1633 | 41 | 52 |
| CR1634 | 33 | 52 |
| CR1636 | 99 | 11 |
| CR1637 | 93 | 11 |
| CR1638 | 84 | 11 |
| CR1639 | 81 | 11 |
| CR1640 | 123 | 57 |
| CR1641 | 61 | 8 |
| CR1642 | 53 | 8 |
| CR1643 | 43 | 9 |
| CR1644 | 43 | 9 |
| CR1645 | 57 | 57 |
| CR1646 | 25 | 8 |
| CR1647 | 22 | 8 |
| CR1648 | 23 | 8 |
| CR1649 | 53 | 62 |
| CR1650 | 17 | 7 |
| CR1651 | 74 | 66 |
| CR1652 | 97 | 60 |
| CR1653 | 90 | 47 |
| CR1654 | 96 | 48 |
| CR1655 | 117 | 23 |
| CR1656 | 93 | 47 |
| CR1657 | 98 | 51 |
| CR1660 | 117 | 19 |
| CR1661 | 64 | 50 |
| CR1662 | 46 | 45 |
| CR1663 | 58 | 38 |
| CR1664 | 117 | 16 |
| CR1665 | 97 | 63 |
| CR1670 | 97 | 56 |
| CR1675 | 98 | 54 |
| CR1679 | 97 | 65 |
| CR1680 | 111 | 55 |
| CR1684 | 103 | 11 |
| CR1685 | 100 | 11 |
| CR1686 | 97 | 68 |
| CR1687 | 105 | 70 |
| CR1688 | 119 | 26 |
| CR1689 | 78 | 11 |
| CR1690 | 76 | 11 |
| CR1691 | 65 | 10 |
| CR1692 | 63 | 10 |
| CR1693 | 43 | 9 |
| CR1694 | 40 | 9 |
| CR1695 | 30 | 8 |
| CR1696 | 27 | 8 |
| CR1697 | 88 | 72 |
| CR1698 | 120 | 31 |
| CR1699 | 121 | 29 |

Platinenabbildungen und Schaltpläne / Layout of the PCBs and Circuit Diagrams CUC 1832 / 1930 / 1931

## Signal Baustein / Signal Modul 29504 212 0200



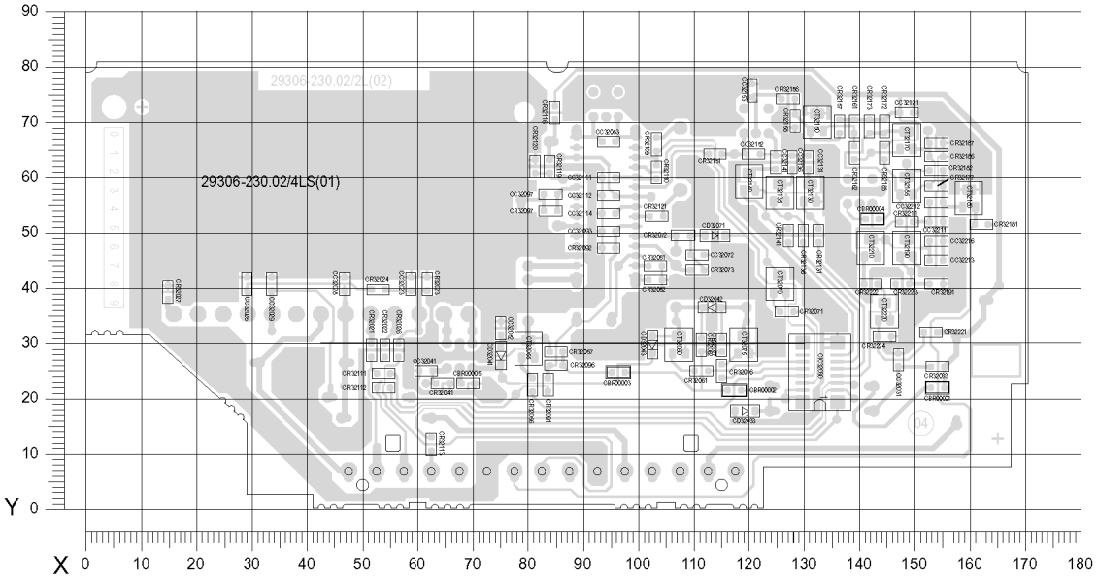
**Bestückungsseite, Ansicht von oben**
**Component Side, Top View**




**Koordinaten für die Bauteile der Bestückungsseite (Oberseite)**
**Coordinates of the Components on the Components Side (Top Side)**

| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| BR01 | 133 | 18 |
| BR02 | 133 | 22 |
| BR03 | 114 | 54 |
| BR04 | 93 | 38 |
| BR05 | 51 | 20 |
| BR06 | 73 | 16 |
| C32003 | 34 | 26 |
| C32006 | 160 | 38 |
| C32027 | 44 | 27 |
| C32092 | 88 | 31 |
| C32098 | 79 | 58 |
| C3211'3 | 95 | 31 |
| C3211'6 | 81 | 67 |
| C32123 | 83 | 51 |
| F32041 | 68 | 28 |
| F32050 | 113 | 41 |
| F32052 | 80 | 39 |
| F32065 | 94 | 73 |
| F3216'1 | 121 | 70 |
| F32211 | 140 | 57 |
| IC32110 | 94 | 54 |
| L3200' | 158 | 23 |
| L32006 | 54 | 16 |
| R32122 | 110 | 60 |
| R32334 | 110 | 71 |
| STL | 83 | 2 |
| TUNER | 36 | 55 |

**Lötseite, Ansicht von unten**
**Solder Side, Bottom View**



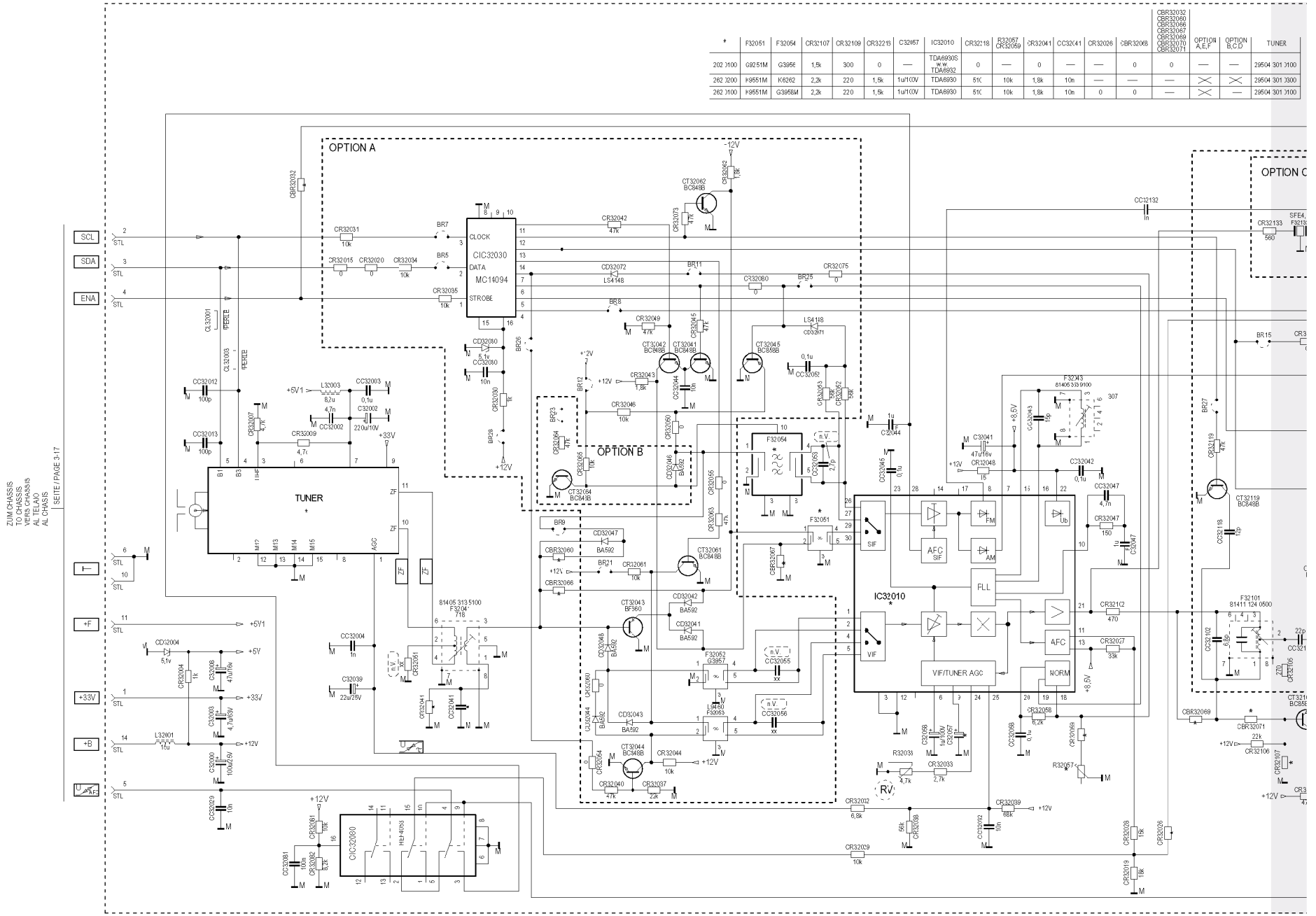

**Koordinaten für die Bauteile der Lötseite (Unterseite)**
**Coordinates of the components on the Solder Side (Bottom Side)**

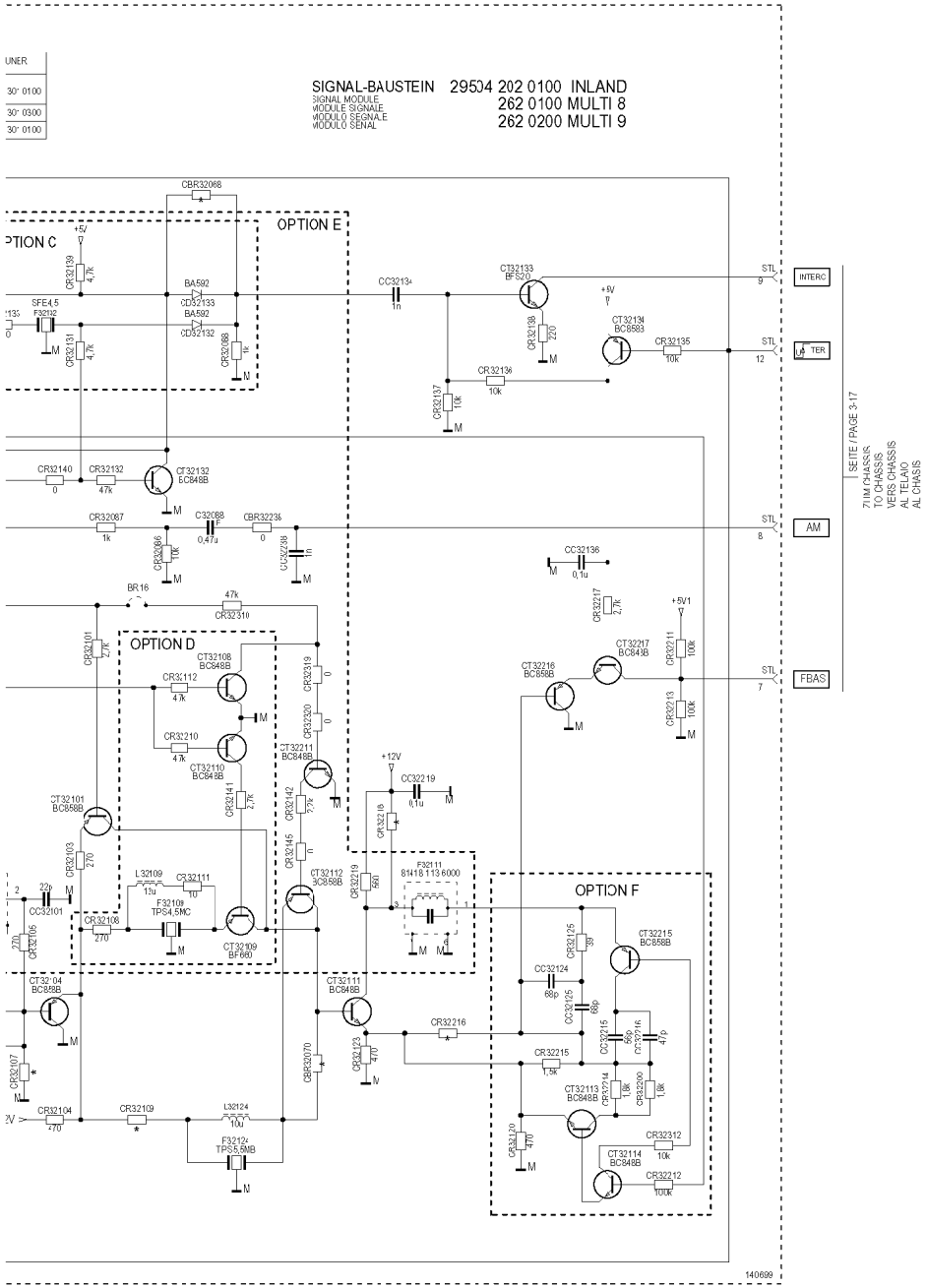
| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| CBR01 | 154 | 22 |
| CBR02 | 117 | 21 |
| CBR03 | 96 | 25 |
| CBR04 | 142 | 52 |
| CBR05 | 69 | 23 |
| CC32023 | 59 | 41 |
| CC32026 | 29 | 41 |
| CC32028 | 47 | 41 |
| CC32029 | 33 | 41 |
| CC32031 | 147 | 27 |
| CC32041 | 62 | 25 |
| CC32052 | 75 | 33 |
| CC32072 | 110 | 46 |
| CC32083 | 94 | 66 |
| CC32093 | 94 | 50 |
| CC32097 | 84 | 57 |
| CC32111 | 94 | 60 |
| CC32112 | 94 | 57 |
| CC32114 | 94 | 53 |
| CC32131 | 131 | 63 |
| CC32136 | 128 | 63 |
| CC32141 | 125 | 63 |
| CC32152 | 121 | 64 |
| CC32153 | 120 | 76 |
| CC32171 | 149 | 72 |
| CC32211 | 154 | 52 |
| CC32212 | 154 | 55 |
| CC32213 | 154 | 45 |
| CC32216 | 154 | 48 |
| CD32033 | 119 | 18 |
| CD32041 | 75 | 28 |
| CD32042 | 113 | 36 |
| CD32043 | 102 | 30 |
| CD32071 | 114 | 49 |
| CIC32030 | 133 | 25 |
| CR32021 | 52 | 28 |
| CR32022 | 54 | 26 |
| CR32023 | 52 | 41 |
| CR32024 | 53 | 40 |
| CR32026 | 57 | 28 |
| CR32027 | 15 | 39 |
| CR32033 | 154 | 25 |
| CR32041 | 65 | 23 |
| CR32051 | 103 | 44 |
| CR32052 | 103 | 41 |
| CR32056 | 81 | 22 |
| CR32057 | 85 | 28 |
| CR32061 | 111 | 25 |
| CR32062 | 111 | 30 |
| CR32071 | 127 | 35 |
| CR32072 | 108 | 49 |
| CR32073 | 110 | 43 |
| CR32076 | 115 | 25 |
| CR32077 | 115 | 30 |
| CR32091 | 84 | 22 |
| CR32092 | 94 | 47 |
| CR32096 | 85 | 26 |
| CR32097 | 84 | 54 |
| CR32109 | 103 | 66 |
| CR32110 | 103 | 61 |
| CR32111 | 54 | 24 |
| CR32112 | 54 | 22 |
| CR32113 | 63 | 11 |
| CR32116 | 85 | 72 |
| CR32119 | 84 | 62 |
| CR32120 | 81 | 62 |
| CR32121 | 103 | 53 |
| CR32131 | 133 | 49 |
| CR32136 | 130 | 49 |
| CR32141 | 127 | 49 |
| CR32151 | 114 | 64 |
| CR32156 | 127 | 74 |
| CR32157 | 136 | 69 |
| CR32158 | 128 | 70 |
| CR32161 | 139 | 69 |
| CR32162 | 139 | 64 |
| CR32172 | 144 | 69 |
| CR32173 | 142 | 69 |
| CR32177 | 154 | 58 |
| CR32181 | 162 | 51 |
| CR32182 | 154 | 61 |
| CR32186 | 154 | 63 |
| CR32187 | 154 | 66 |
| CR32188 | 144 | 64 |
| CR32191 | 154 | 41 |
| CR32211 | 149 | 52 |
| CR32221 | 153 | 32 |
| CR32222 | 142 | 41 |
| CR32223 | 148 | 41 |
| CR32224 | 144 | 31 |
| CT32055 | 80 | 29 |
| CT32060 | 107 | 30 |
| CT32070 | 125 | 41 |
| CT32075 | 119 | 30 |
| CT32130 | 131 | 57 |
| CT32135 | 125 | 57 |
| CT32140 | 120 | 59 |
| CT32150 | 132 | 70 |
| CT32170 | 149 | 67 |
| CT32180 | 160 | 56 |
| CT32185 | 149 | 56 |
| CT32190 | 149 | 47 |
| CT32210 | 142 | 47 |
| CT32220 | 144 | 35 |

Platinenabbildungen und Schaltpläne / Layout of the PCBs and Circuit Diagrams CUC 1832 / 1930 / 1931

## Signal Baustein / Signal Modul 29504 202 0100 / 29504 262 0100

| * | F32051 | F32054 | CR32107 | CR32109 | CR32215 | C32857 | IC32010 | CR32118 | CR32057 CR32059 | CR32041 | CC32041 | CR32026 | CBR32068 | CBR32032 CBR32040 CBR32066 CBR32067 CBR32069 CBR32070 CBR32071 | OPTION A,E,F | OPTION B,C,D | TUNER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 202 0100 | G9251M | G3956 | 1,5k | 300 | 0 | — | TDA6930S w.w. TDA6932 | 0 | — | 0 | — | — | 0 | 0 | — | — | 29504 301 0100 |
| 262 0200 | k9551M | K6262 | 2,2k | 220 | 1,5k | 1u/100V | TDA6930 | 51C | 10k | 1,8k | 10n | — | — | — | X | X | 29504 301 0300 |
| 262 0100 | k9551M | G3958M | 2,2k | 220 | 1,5k | 1u/100V | TDA6930 | 51C | 10k | 1,8k | 10n | 0 | 0 | — | X | — | 29504 301 0100 |

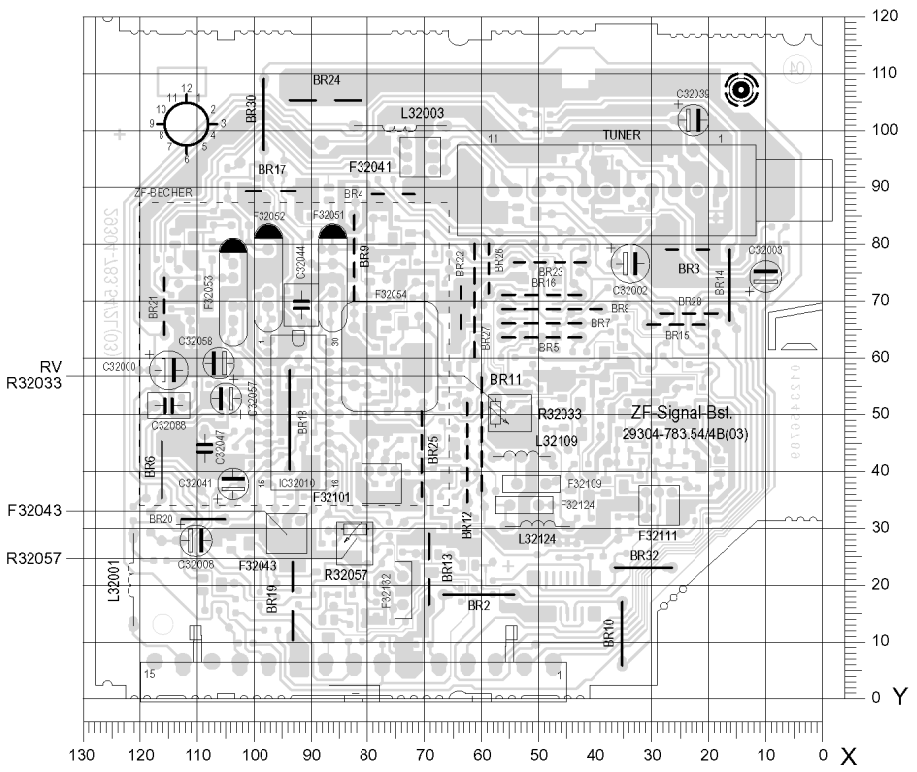









**Bestückungsseite. Ansicht von oben**
**Component Side, Top View**



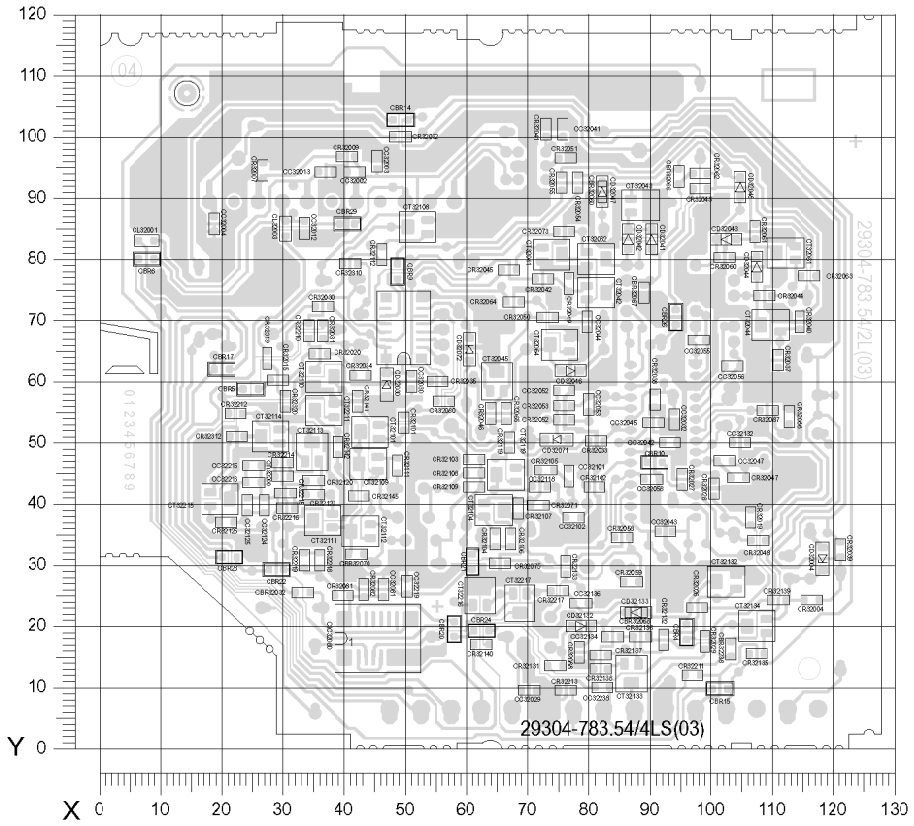

**Koordinaten für die Bauteile der Bestückungsseite (Oberseite)**
**Coordinates of the Components on the Components Side (Top Side)**

| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| BR02 | 60 | 19 |
| BR03 | 23 | 80 |
| BR04 | 75 | 89 |
| BR05 | 49 | 64 |
| BR06 | 116 | 41 |
| BR07 | 49 | 66 |
| BR08 | 47 | 69 |
| BR09 | 82 | 78 |
| BR10 | 35 | 12 |
| BR11 | 60 | 47 |
| BR12 | 62 | 44 |
| BR13 | 69 | 23 |
| BR14 | 16 | 73 |
| BR15 | 25 | 66 |
| BR16 | 49 | 71 |
| BR17 | 97 | 90 |
| BR18 | 93 | 50 |
| BR19 | 93 | 18 |
| BR20 | 108 | 32 |
| BR21 | 115 | 70 |
| BR22 | 63 | 69 |
| BR23 | 48 | 77 |

| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| BR24 | 87 | 106 |
| BR25 | 70 | 44 |
| BR26 | 88 | 76 |
| BR27 | 61 | 70 |
| BR28 | 23 | 68 |
| BR30 | 98 | 103 |
| BR32 | 31 | 24 |
| C32000 | 115 | 58 |
| C32002 | 33 | 77 |
| C32003 | 10 | 75 |
| C32008 | 110 | 29 |
| C32039 | 22 | 103 |
| C32041 | 104 | 38 |
| C32044 | 91 | 70 |
| C32047 | 108 | 45 |
| C32057 | 105 | 53 |
| C32058 | 106 | 59 |
| C32088 | 114 | 52 |
| F32041 | 70 | 96 |
| F32043 | 94 | 30 |
| F32051 | 86 | 75 |

| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| F32052 | 97 | 75 |
| F32053 | 103 | 72 |
| F32054 | 76 | 61 |
| F32101 | 77 | 38 |
| F32109 | 51 | 38 |
| F32111 | 28 | 35 |
| F32124 | 52 | 35 |
| F32132 | 73 | 20 |
| IC32010 | 92 | 51 |
| L32001 | 121 | 21 |
| L32003 | 74 | 101 |
| L32109 | 53 | 43 |
| L32124 | 50 | 31 |
| R32033 | 55 | 51 |
| R32057 | 82 | 28 |
| ST. | 82 | 2 |
| TUNER | 31 | 90 |

**Lötseite, Ansicht von unten**
**Solder Side, Bottom View**



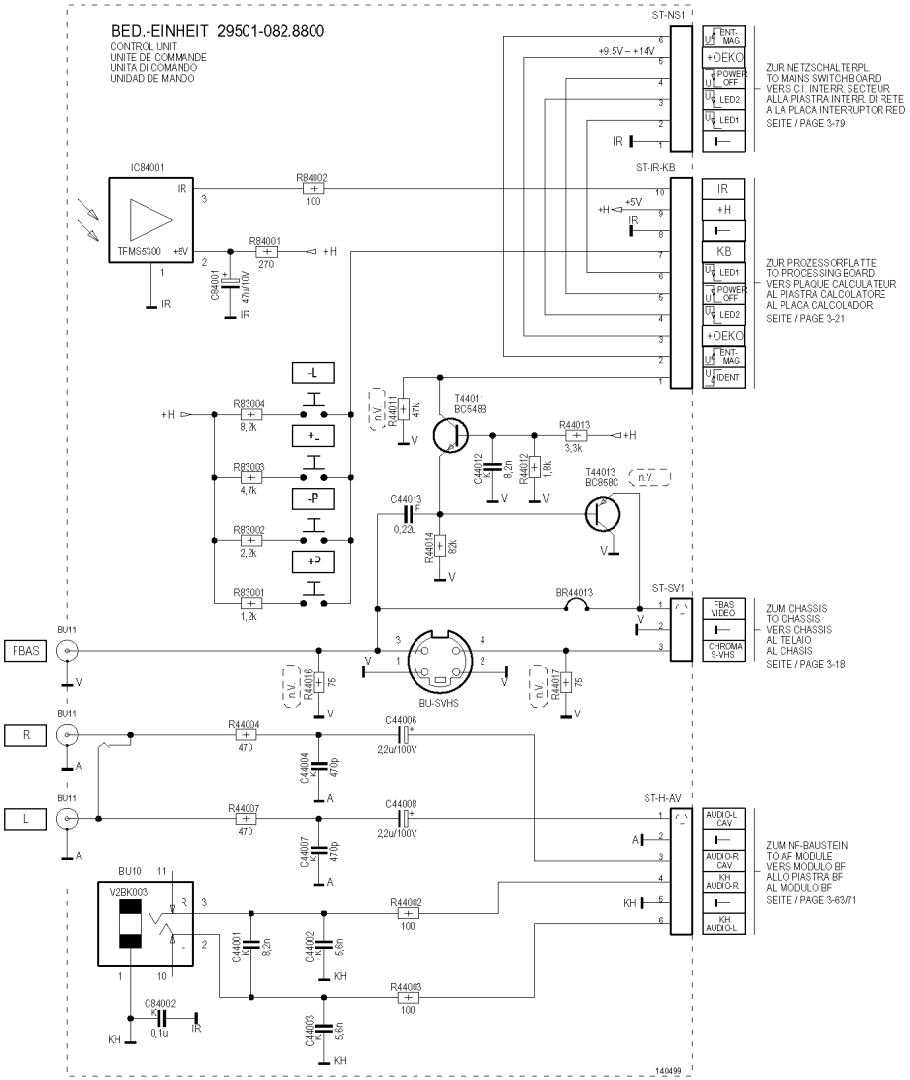




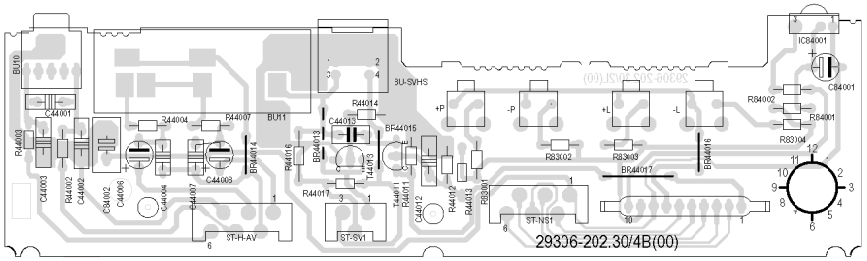

**Koordinaten für die Bauteile der Lötseite (Unterseite)**
**Coordinates of the components on the Solder Side (Bottom Side)**

| Pos.-Nr. / Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| CBR04 | 95 | 20 |
| CBR05 | 24 | 59 |
| CBR06 | 7 | 91 |
| CBR09 | 43 | 78 |
| CBR10 | 90 | 47 |
| CBR14 | 49 | 103 |
| CBR15 | 101 | 10 |
| CBR17 | 20 | 62 |
| CBR20 | 53 | 20 |
| CBR21 | 60 | 31 |
| CBR22 | 29 | 30 |
| CBR23 | 21 | 32 |
| CBR24 | 62 | 20 |
| CBR26 | 94 | 71 |
| CBR29 | 40 | 86 |
| CBR32032 | 33 | 26 |
| CBR32060 | 82 | 91 |
| CBR32066 | 94 | 94 |
| CBR32067 | 83 | 75 |
| CBR32068 | 87 | 23 |
| CBR32069 | 77 | 38 |
| CBR32070 | 41 | 32 |
| CBR32238 | 103 | 17 |
| CC32002 | 41 | 95 |
| CC32003 | 45 | 96 |
| CC32004 | 13 | 86 |
| CC32012 | 38 | 86 |
| CC32013 | 38 | 95 |
| CC32029 | 70 | 10 |
| CC32030 | 50 | 61 |
| CC32032 | 94 | 54 |
| CC32041 | 75 | 102 |
| CC32042 | 93 | 50 |
| CC32043 | 92 | 36 |
| CC32044 | 79 | 70 |
| CC32045 | 90 | 54 |
| CC32047 | 102 | 48 |
| CC32052 | 75 | 59 |
| CC32053 | 80 | 57 |
| CC32055 | 98 | 67 |
| CC32056 | 103 | 63 |
| CC32058 | 90 | 45 |
| CC32081 | 46 | 27 |
| CC32101 | 76 | 45 |
| CC32102 | 77 | 38 |
| CC32118 | 72 | 43 |
| CC32124 | 27 | 40 |
| CC32125 | 24 | 40 |
| CC32132 | 104 | 50 |
| CC32134 | 84 | 19 |
| CC32136 | 78 | 24 |
| CC32215 | 25 | 47 |
| CC32216 | 25 | 44 |
| CC32219 | 50 | 27 |
| CC32238 | 82 | 11 |
| CD32004 | 118 | 32 |
| CD32030 | 46 | 60 |
| CD32041 | 90 | 84 |
| CD32042 | 86 | 84 |
| CD32043 | 102 | 84 |
| CD32044 | 107 | 79 |
| CD32046 | 77 | 62 |
| CD32047 | 82 | 91 |
| CD32048 | 104 | 92 |
| CD32071 | 74 | 51 |
| CD32072 | 60 | 66 |
| CD32132 | 78 | 20 |
| CD32133 | 87 | 23 |
| CIC32030 | 49 | 69 |
| CIC32080 | 45 | 19 |
| CL32001 | 7 | 83 |
| CL32003 | 30 | 86 |
| CR32004 | 116 | 25 |
| CR32007 | 26 | 95 |
| CR32009 | 40 | 97 |
| CR32015 | 29 | 61 |
| CR32019 | 106 | 38 |
| CR32020 | 35 | 65 |
| CR32026 | 97 | 24 |
| CR32027 | 95 | 45 |
| CR32028 | 100 | 43 |
| CR32029 | 98 | 18 |
| CR32030 | 36 | 73 |
| CR32031 | 36 | 69 |
| CR32032 | 49 | 100 |
| CR32033 | 81 | 51 |
| CR32034 | 42 | 62 |
| CR32035 | 55 | 60 |
| CR32037 | 111 | 64 |
| CR32038 | 90 | 58 |
| CR32039 | 121 | 33 |
| CR32040 | 114 | 70 |
| CR32041 | 73 | 102 |
| CR32042 | 72 | 77 |
| CR32043 | 96 | 92 |
| CR32044 | 108 | 75 |
| CR32045 | 66 | 79 |
| CR32046 | 64 | 55 |
| CR32047 | 104 | 45 |
| CR32048 | 107 | 35 |
| CR32049 | 76 | 77 |
| CR32050 | 73 | 71 |
| CR32051 | 76 | 97 |
| CR32052 | 75 | 54 |
| CR32053 | 75 | 56 |
| CR32054 | 78 | 93 |
| CR32055 | 75 | 93 |
| CR32058 | 85 | 35 |
| CR32059 | 87 | 28 |
| CR32060 | 102 | 81 |
| CR32061 | 107 | 85 |
| CR32062 | 98 | 95 |
| CR32063 | 115 | 78 |
| CR32064 | 67 | 74 |
| CR32065 | 66 | 35 |
| CR32071 | 71 | 40 |
| CR32073 | 75 | 85 |
| CR32075 | 65 | 31 |
| CR32080 | 56 | 37 |
| CR32081 | 39 | 35 |
| CR32082 | 43 | 27 |
| CR32086 | 112 | 35 |
| CR32087 | 109 | 56 |
| CR32088 | 78 | 16 |
| CR32101 | 49 | 34 |
| CR32102 | 81 | 43 |
| CR32103 | 61 | 48 |
| CR32104 | 64 | 35 |
| CR32105 | 73 | 46 |
| CR32106 | 67 | 35 |
| CR32107 | 68 | 40 |
| CR32108 | 61 | 45 |
| CR32109 | 61 | 43 |
| CR32111 | 48 | 47 |
| CR32112 | 46 | 81 |
| CR32119 | 66 | 30 |
| CR32120 | 35 | 44 |
| CR32123 | 35 | 42 |
| CR32125 | 20 | 38 |
| CR32131 | 74 | 14 |
| CR32132 | 92 | 18 |
| CR32133 | 76 | 30 |
| CR32135 | 107 | 16 |
| CR32136 | 88 | 19 |
| CR32137 | 81 | 16 |
| CR32138 | 81 | 13 |
| CR32139 | 111 | 25 |
| CR32140 | 62 | 17 |
| CR32141 | 42 | 37 |
| CR32142 | 39 | 30 |
| CR32145 | 42 | 42 |
| CR32200 | 30 | 45 |
| CR32210 | 34 | 69 |
| CR32211 | 96 | 12 |
| CR32212 | 22 | 56 |
| CR32213 | 76 | 10 |
| CR32214 | 30 | 47 |
| CR32215 | 30 | 42 |
| CR32216 | 30 | 40 |
| CR32217 | 75 | 26 |
| CR32218 | 35 | 31 |
| CR32219 | 33 | 31 |
| CR32310 | 40 | 80 |
| CR32312 | 22 | 51 |
| CR32319 | 27 | 64 |
| CR32320 | 30 | 57 |
| CT32041 | 74 | 81 |
| CT32042 | 81 | 75 |
| CT32043 | 68 | 69 |
| CT32044 | 109 | 70 |
| CT32045 | 65 | 60 |
| CT32061 | 112 | 81 |
| CT32062 | 81 | 81 |
| CT32064 | 75 | 66 |
| CT32101 | 44 | 52 |
| CT32104 | 64 | 40 |
| CT32108 | 51 | 86 |
| CT32109 | 44 | 47 |
| CT32110 | 36 | 61 |
| CT32111 | 36 | 38 |
| CT32112 | 42 | 36 |
| CT32113 | 34 | 49 |
| CT32114 | 27 | 51 |
| CT32119 | 66 | 45 |
| CT32132 | 102 | 28 |
| CT32133 | 87 | 13 |
| CT32134 | 107 | 20 |
| CT32211 | 36 | 56 |
| CT32215 | 19 | 41 |
| CT32216 | 62 | 25 |
| CT32217 | 68 | 24 |

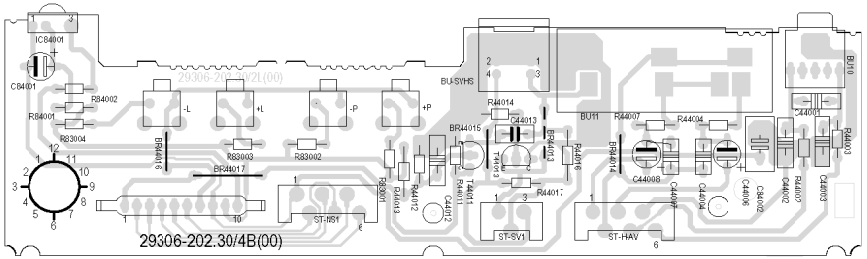
## Bedieneinheit / Control Unit




**Bestückungsseite, Ansicht von oben**
**Component Side, Top View**



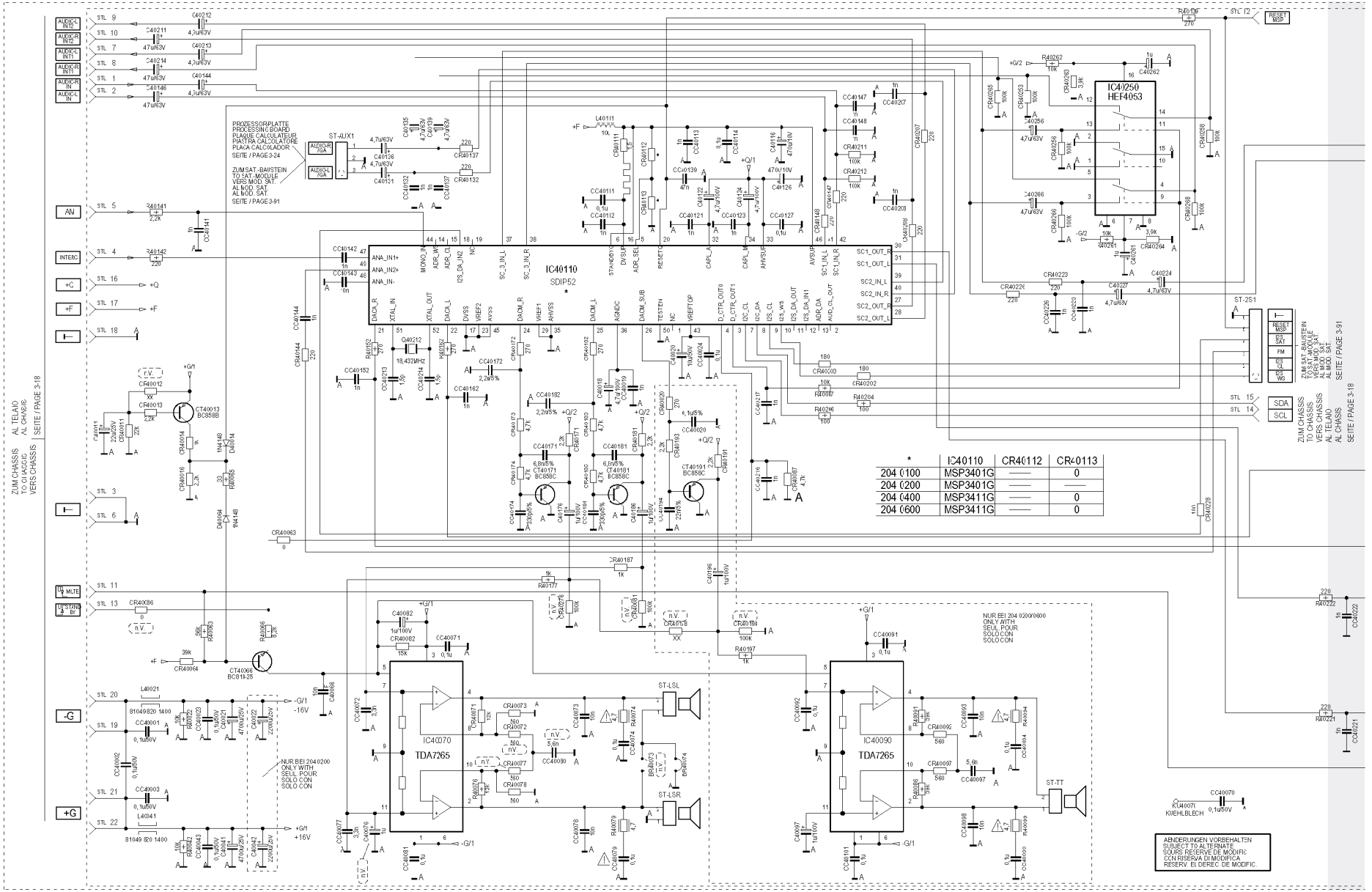

**Lötseite, Ansicht von unten**
**Solder Side, Bottom View**



Platinenabbildungen und Schaltpläne / Layout of the PCBs and Circuit Diagrams CUC 1832 / 1930 / 1931

## NF-Baustein / AF Module 29504 204 0100/0400

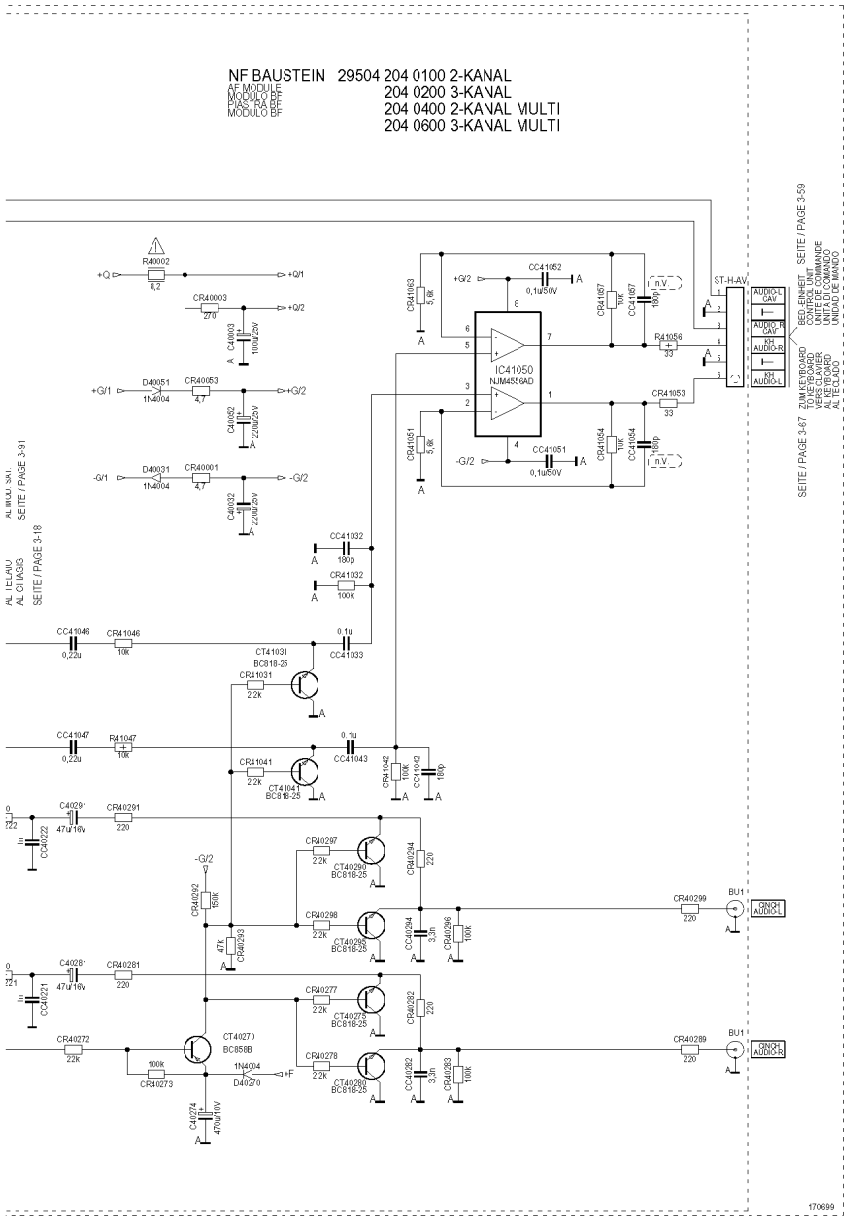
| Spannungstabelle Table of Voltages | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +1 | +12V | +4A | +5V | +B1 | +12V | +E1 | +8.5V | +F/3 | -5V | -G | -16.5V -13V CUC 1931 STATUS | +K | +13V | +Q | +8.5V |
| +2 | +5V | +5 | +5V | +C | +200V | +F | +5V | +G | -16.5V -13V CUC 1931 STATUS | -G/1 | -16.5V -13V CUC 1931 STATUS | -K | -13V | +Q/1 | +8.5V |
| +3 | +3.3V PAL/PLUS +5V LFR | +7 | +12V | +D | +26V | +F/1 | +5V | +G/1 | -16.5V -13V CUC 1931 STATUS | -G/2 | -15.5V -12V CUC 1931 STATUS | +M | +16V | +Q/3 | +8.5V |
| +4 | +5V | +B | +12V | +E | +8.5V | +F/2 | +5V | +G/2 | -16.5V -12V CUC 1931 STATUS | +H | +5V | +N | +5V +3.3V PAL/PLUS | +OEKO | +9.5V – +14V |



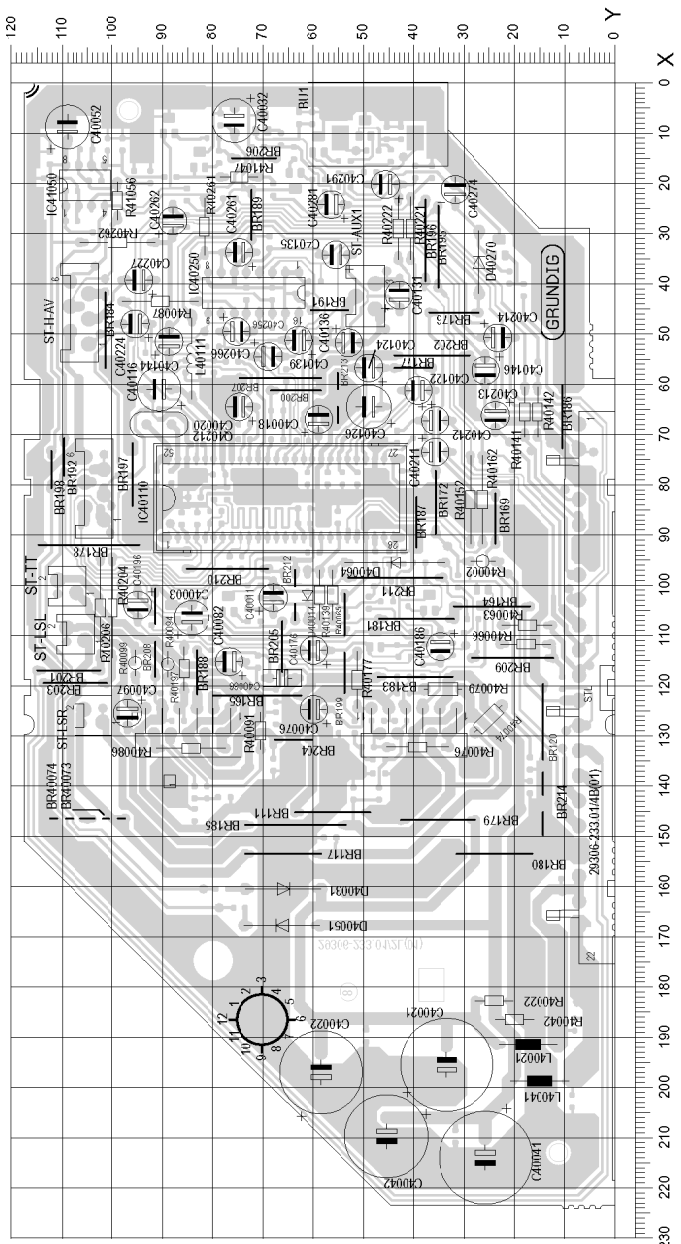

| * | IC40110 | CR40112 | CR40113 |
|---|---|---|---|
| 204 0100 | MSP3401G | — | 0 |
| 204 0200 | MSP3401G | — | — |
| 204 0400 | MSP3411G | — | 0 |
| 204 0600 | MSP3411G | — | 0 |

Bei den in den Schaltplänen angegebenen Messwerten handelt es sich um Näherungswerte!

The measured values given in the circuit diagrams are approximates!




**Bestückungsseite, Ansicht von oben**
**Component Side, Top View**

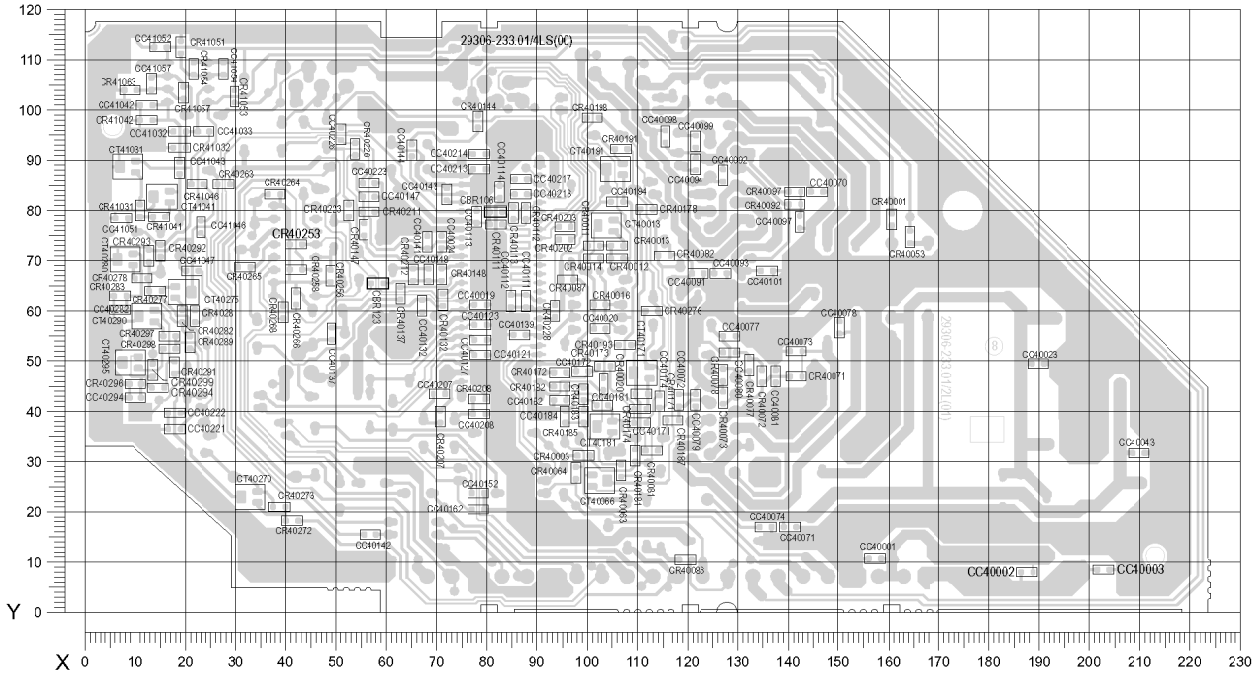



**Koordinaten für die Bauteile der Bestückungsseite (Oberseite)**
**Coordinates of the Components on the Components Side (Top Side)**

| Pos.-Nr. / Pos. No. | Koordinaten / Coordinates X | Y |
|---|---|---|
| BR111 | 145 | 56 |
| BR117 | 153 | 66 |
| BR120 | 127 | 14 |
| BR164 | 104 | 25 |
| BR165 | 122 | 71 |
| BR169 | 67 | 24 |
| BR172 | 64 | 36 |
| BR176 | 46 | 32 |
| BR177 | 57 | 40 |
| BR178 | 92 | 105 |
| BR179 | 147 | 35 |
| BR180 | 153 | 24 |
| BR181 | 107 | 40 |
| BR183 | 118 | 40 |
| BR184 | 49 | 101 |
| BR185 | 148 | 63 |
| BR186 | 67 | 10 |
| BR187 | 68 | 45 |
| BR188 | 117 | 83 |
| BR189 | 26 | 72 |
| BR191 | 45 | 57 |
| BR192 | 74 | 110 |
| BR195 | 33 | 35 |
| BR196 | 51 | 38 |
| BR197 | 78 | 96 |
| BR198 | 77 | 112 |
| BR199 | 112 | 54 |
| BR200 | 61 | 63 |
| BR201 | 117 | 109 |
| BR202 | 54 | 37 |
| BR203 | 119 | 108 |
| BR204 | 131 | 64 |
| BR205 | 112 | 66 |
| BR206 | 75 | 72 |
| BR207 | 59 | 67 |
| BR208 | 109 | 91 |
| BR209 | 115 | 20 |
| BR210 | 97 | 77 |
| BR211 | 98 | 44 |
| BR212 | 102 | 64 |
| BR213 | 63 | 55 |
| BR214 | 123 | 14 |
| BR40073 | 147 | 101 |
| BR40074 | 147 | 109 |
| BU01 | 4 | 47 |
| C40003 | 107 | 84 |
| C40011 | 102 | 68 |
| C40018 | 67 | 59 |
| C40020 | 65 | 75 |
| C40021 | 196 | 33 |
| C40022 | 198 | 58 |
| C40032 | 7 | 76 |
| C40041 | 213 | 26 |
| C40042 | 209 | 46 |
| C40052 | 9 | 109 |
| C40066 | 118 | 66 |
| C40076 | 125 | 60 |
| C40082 | 116 | 77 |
| C40097 | 125 | 97 |
| C40116 | 61 | 90 |
| C40122 | 62 | 39 |
| C40124 | 57 | 49 |
| C40126 | 65 | 49 |
| C40131 | 42 | 43 |
| C40135 | 35 | 56 |
| C40136 | 51 | 53 |
| C40139 | 52 | 63 |
| C40144 | 52 | 89 |
| C40146 | 57 | 25 |
| C40176 | 113 | 60 |

| Pos.-Nr. / Pos. No. | Koordinaten / Coordinates X | Y |
|---|---|---|
| C40186 | 112 | 34 |
| C40196 | 104 | 95 |
| C40211 | 73 | 36 |
| C40212 | 67 | 36 |
| C40213 | 66 | 23 |
| C40214 | 50 | 23 |
| C40224 | 48 | 96 |
| C40227 | 40 | 95 |
| C40256 | 49 | 75 |
| C40261 | 34 | 75 |
| C40262 | 28 | 88 |
| C40266 | 54 | 69 |
| C40274 | 21 | 32 |
| C40281 | 25 | 57 |
| C40291 | 21 | 46 |
| D40014 | 102 | 61 |
| D40031 | 160 | 66 |
| D40051 | 166 | 66 |
| D40064 | 96 | 44 |
| D40270 | 36 | 27 |
| IC40070 | 129 | 40 |
| IC40090 | 129 | 85 |
| IC40110 | 83 | 67 |
| IC40250 | 42 | 72 |
| IC41050 | 20 | 106 |
| KU40070 | 139 | 89 |
| L40021 | 192 | 17 |
| L40041 | 199 | 15 |
| L40111 | 55 | 84 |
| Q40212 | 68 | 91 |
| R40002 | 95 | 26 |
| R40022 | 183 | 24 |
| R40042 | 186 | 20 |
| R40063 | 106 | 18 |
| R40065 | 102 | 56 |
| R40066 | 112 | 18 |
| R40074 | 127 | 25 |
| R40076 | 132 | 39 |
| R40079 | 121 | 34 |
| R40086 | 133 | 84 |
| R40087 | 43 | 91 |
| R40091 | 129 | 71 |
| R40094 | 116 | 89 |
| R40099 | 116 | 96 |
| R40139 | 102 | 59 |
| R40141 | 65 | 18 |
| R40142 | 65 | 15 |
| R40152 | 83 | 29 |
| R40162 | 83 | 26 |
| R40177 | 119 | 51 |
| R40197 | 117 | 86 |
| R40204 | 105 | 100 |
| R40206 | 105 | 102 |
| R40221 | 29 | 41 |
| R40222 | 29 | 43 |
| R40261 | 29 | 82 |
| R40262 | 32 | 99 |
| R4 047 | 19 | 75 |
| R4 056 | 23 | 99 |
| ST-AUX01 | 43 | 50 |
| ST-H-AV | 46 | 107 |
| ST-I2S1 | 81 | 104 |
| ST-LSL | 110 | 107 |
| ST-LSR | 126 | 104 |
| ST-TT | 100 | 109 |
| STL | 120 | 2 |

**Lötseite, Ansicht von unten**
**Solder Side, Bottom View**







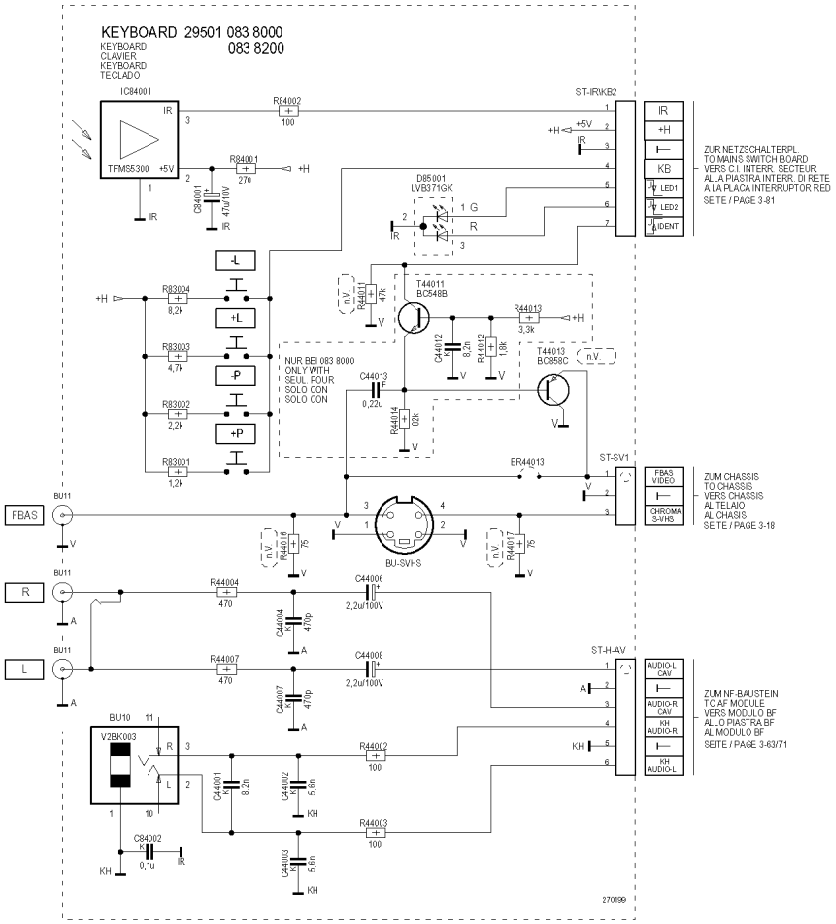

**Koordinaten für die Bauteile der Lötseite (Unterseite)**
**Coordinates of the components on the Solder Side (Bottom Side)**

| Pos.-Nr. / Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| CBR106 | 82 | 83 |
| CBR123 | 58 | 65 |
| CC40001 | 157 | 11 |
| CC40002 | 188 | 3 |
| CC40003 | 203 | 3 |
| CC40019 | 79 | 61 |
| CC40020 | 102 | 57 |
| CC40023 | 190 | 49 |
| CC40024 | 71 | 74 |
| CC40043 | 210 | 32 |
| CC40070 | 146 | 84 |
| CC40071 | 140 | 17 |
| CC40072 | 118 | 42 |
| CC40073 | 142 | 52 |
| CC40074 | 135 | 17 |
| CC40077 | 128 | 55 |
| CC40078 | 150 | 57 |
| CC40079 | 122 | 42 |
| CC40080 | 128 | 52 |
| CC40081 | 138 | 47 |
| CC40091 | 122 | 63 |
| CC40092 | 127 | 87 |
| CC40093 | 126 | 63 |
| CC40094 | 122 | 83 |
| CC40097 | 142 | 73 |
| CC40098 | 116 | 95 |
| CC40099 | 122 | 94 |
| CC40101 | 136 | 63 |
| CC40111 | 88 | 62 |
| CC40112 | 85 | 62 |
| CC40113 | 78 | 73 |
| CC40114 | 83 | 84 |
| CC40121 | 79 | 51 |
| CC40123 | 79 | 57 |
| CC40127 | 79 | 54 |
| CC40132 | 67 | 61 |
| CC40137 | 49 | 53 |
| CC40139 | 86 | 55 |
| CC40141 | 68 | 74 |
| CC40142 | 57 | 15 |
| CC40143 | 72 | 83 |
| CC40144 | 65 | 92 |
| CC40147 | 57 | 83 |
| CC40148 | 68 | 67 |
| CC40152 | 78 | 24 |
| CC40162 | 78 | 23 |
| CC40171 | 110 | 33 |
| CC40172 | 99 | 43 |
| CC40174 | 111 | 43 |
| CC40181 | 103 | 41 |
| CC40182 | 94 | 42 |
| CC40184 | 96 | 33 |
| CC40194 | 106 | 82 |
| CC40207 | 71 | 43 |
| CC40208 | 78 | 40 |
| CC40213 | 78 | 83 |
| CC40214 | 78 | 91 |
| CC40216 | 87 | 83 |

| Pos.-Nr. / Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| CC40217 | 87 | 86 |
| CC40221 | 18 | 37 |
| CC40222 | 18 | 40 |
| CC40223 | 57 | 86 |
| CC40226 | 51 | 95 |
| CC40282 | 7 | 60 |
| CC40294 | 10 | 43 |
| CC41032 | 19 | 96 |
| CC41033 | 23 | 96 |
| CC41042 | 12 | 101 |
| CC41043 | 19 | 89 |
| CC41046 | 23 | 77 |
| CC41047 | 21 | 68 |
| CC41051 | 7 | 78 |
| CC41052 | 15 | 113 |
| CC41054 | 28 | 108 |
| CC41057 | 13 | 105 |
| CR40001 | 160 | 78 |
| CR40003 | 99 | 31 |
| CR40011 | 101 | 73 |
| CR40012 | 106 | 71 |
| CR40013 | 106 | 73 |
| CR40014 | 101 | 71 |
| CR40016 | 102 | 61 |
| CR40020 | 103 | 46 |
| CR40053 | 164 | 75 |
| CR40063 | 107 | 28 |
| CR40064 | 98 | 28 |
| CR40071 | 142 | 47 |
| CR40072 | 135 | 47 |
| CR40073 | 127 | 43 |
| CR40077 | 132 | 49 |
| CR40078 | 127 | 47 |
| CR40081 | 113 | 32 |
| CR40082 | 115 | 71 |
| CR40086 | 119 | 10 |
| CR40087 | 96 | 66 |
| CR40092 | 141 | 81 |
| CR40097 | 141 | 84 |
| CR40111 | 82 | 77 |
| CR40112 | 88 | 80 |
| CR40113 | 85 | 80 |
| CR40132 | 71 | 62 |
| CR40137 | 63 | 63 |
| CR40144 | 78 | 98 |
| CR40147 | 56 | 76 |
| CR40148 | 71 | 67 |
| CR40171 | 114 | 42 |
| CR40172 | 94 | 48 |
| CR40173 | 103 | 49 |
| CR40174 | 110 | 41 |
| CR40178 | 112 | 80 |
| CR40181 | 109 | 31 |
| CR40182 | 94 | 45 |
| CR40183 | 99 | 43 |
| CR40185 | 99 | 39 |
| CR40187 | 117 | 38 |
| CR40191 | 107 | 92 |

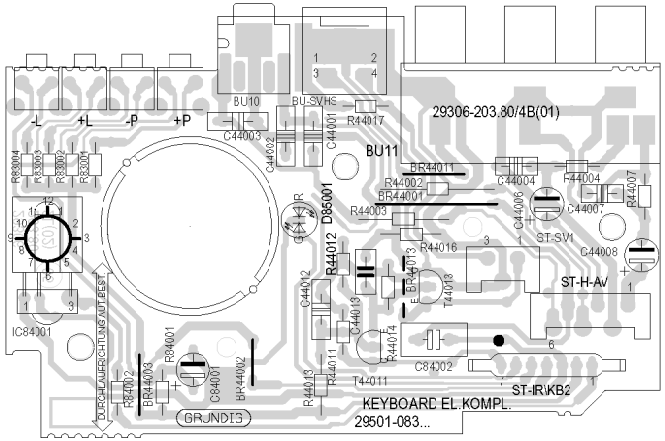
| Pos.-Nr. / Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| CR40193 | 108 | 53 |
| CR40196 | 101 | 98 |
| CR40200 | 96 | 74 |
| CR40203 | 96 | 77 |
| CR40207 | 71 | 39 |
| CR40208 | 78 | 43 |
| CR40211 | 57 | 80 |
| CR40212 | 65 | 67 |
| CR40223 | 53 | 80 |
| CR40226 | 54 | 92 |
| CR40228 | 94 | 60 |
| CR40253 | 42 | 73 |
| CR40256 | 49 | 67 |
| CR40258 | 42 | 68 |
| CR40263 | 28 | 85 |
| CR40264 | 38 | 83 |
| CR40265 | 32 | 69 |
| CR40266 | 42 | 63 |
| CR40268 | 40 | 60 |
| CR40273 | 41 | 18 |
| CR40274 | 39 | 21 |
| CR40276 | 113 | 60 |
| CR40277 | 14 | 64 |
| CR40278 | 11 | 67 |
| CR40281 | 22 | 59 |
| CR40282 | 19 | 59 |
| CR40283 | 7 | 63 |
| CR40289 | 21 | 54 |
| CR40291 | 18 | 49 |
| CR40295 | 15 | 72 |
| CR40296 | 13 | 71 |
| CR40297 | 15 | 45 |
| CR40298 | 10 | 46 |
| CR40299 | 17 | 55 |
| CR40299 | 17 | 53 |
| CR40299 | 14 | 48 |
| CR41031 | 11 | 80 |
| CR41032 | 19 | 93 |
| CR41041 | 15 | 79 |
| CR41042 | 12 | 98 |
| CR41046 | 22 | 85 |
| CR41051 | 19 | 113 |
| CR41053 | 30 | 103 |
| CR41054 | 22 | 108 |
| CR41057 | 20 | 103 |
| CR41063 | 9 | 104 |
| CT40013 | 104 | 77 |
| CT40066 | 102 | 26 |
| CT40171 | 111 | 48 |
| CT40181 | 103 | 37 |
| CT40191 | 106 | 88 |
| CT40270 | 33 | 23 |
| CT40275 | 20 | 64 |
| CT40280 | 8 | 70 |
| CT40290 | 12 | 59 |
| CT40295 | 9 | 50 |
| CT41031 | 9 | 89 |
| CT41041 | 15 | 83 |

## Keyboard 29501 083 8000

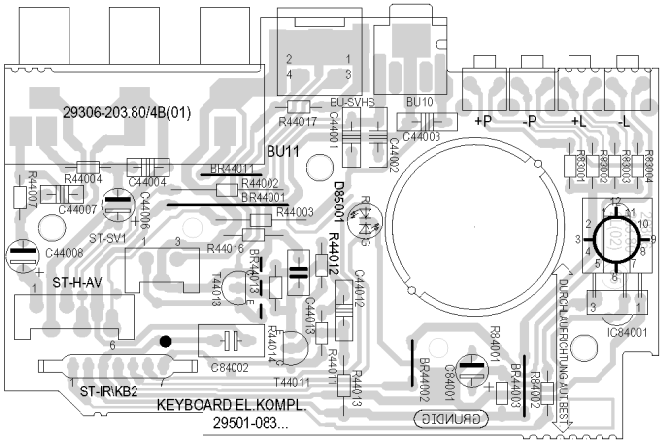





**Bestückungsseite, Ansicht von oben**
**Component Side, Top View**

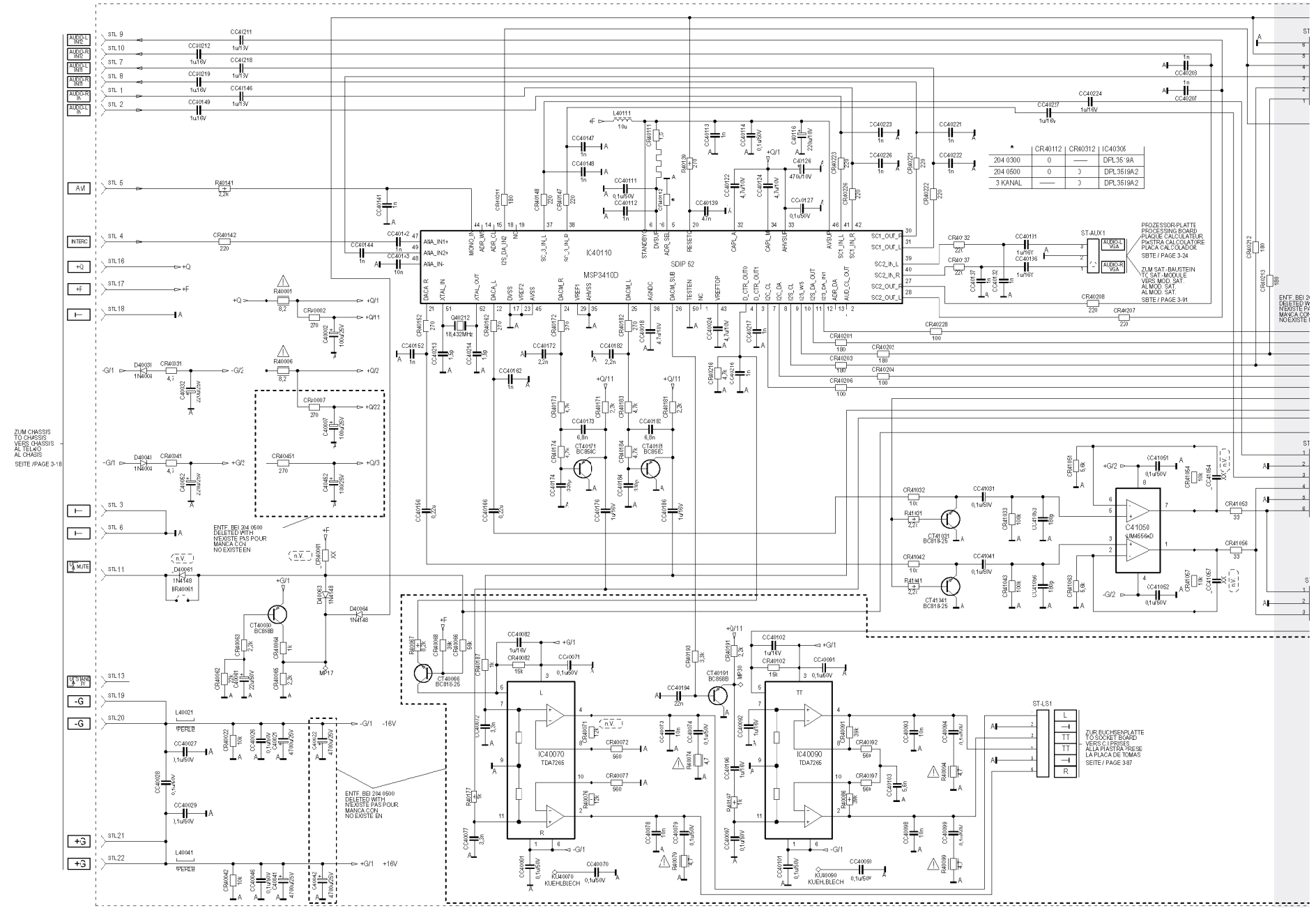



**Lötseite, Ansicht von unten**
**Solder Side, Bottom View**



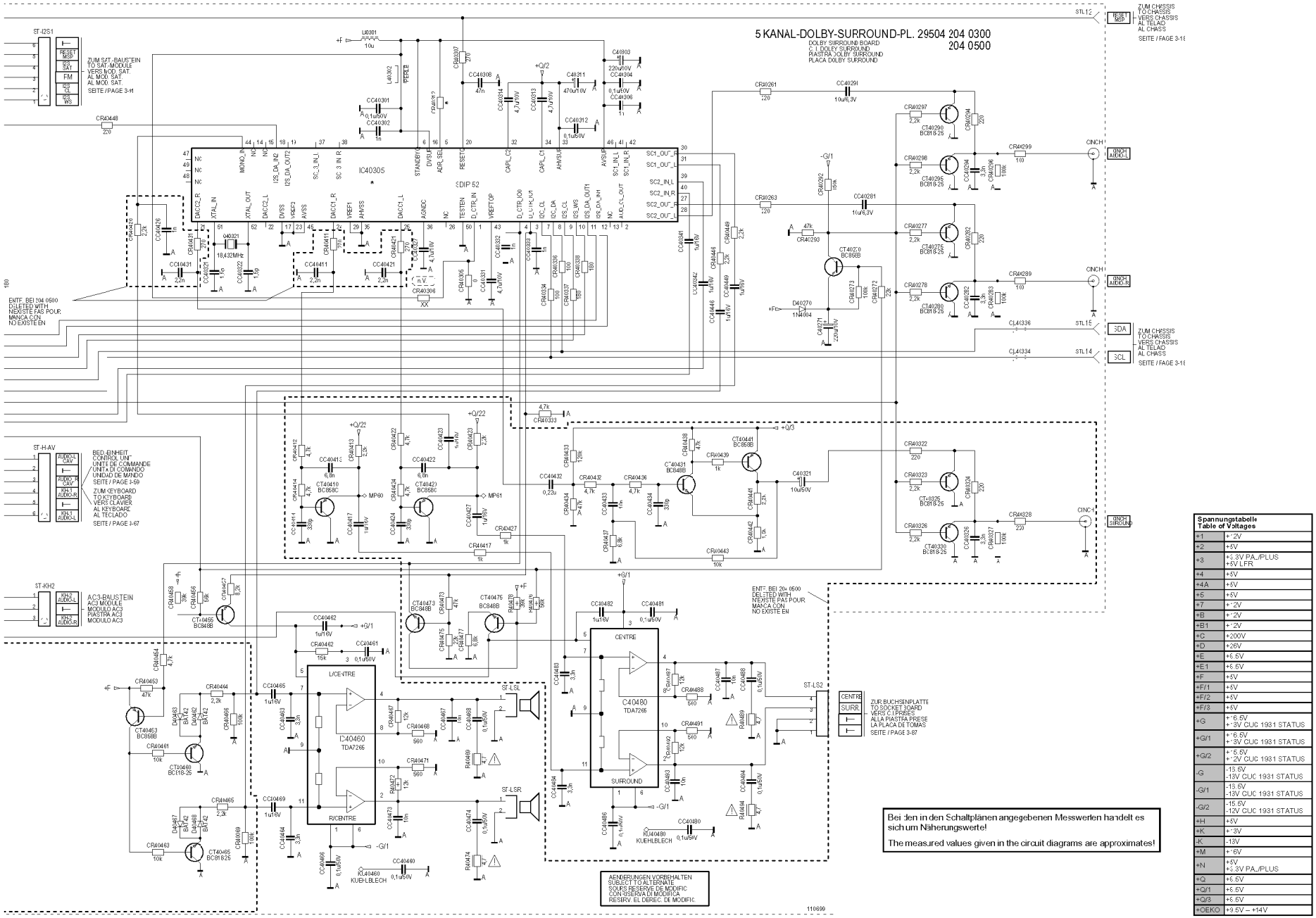
Platinenabbildungen und Schaltpläne / Layout of the PCBs and Circuit Diagrams CUC 1832 / 1930 / 1931

## Dolby-Surround-Platte / Dolby-Surround Board 29504 204 0300/0500




| * | CR40112 | CR40312 | IC40305 |
|---|---|---|---|
| 204 0300 | 0 | — | DPL35 9A |
| 204 0500 | 0 | J | DPL3519A2 |
| 3 KANAL | — | J | DPL3519A2 |

CUC 1832 / 1930 / 1931 Platinenabbildungen und Schaltpläne / Layout of the PCBs and Circuit Diagrams

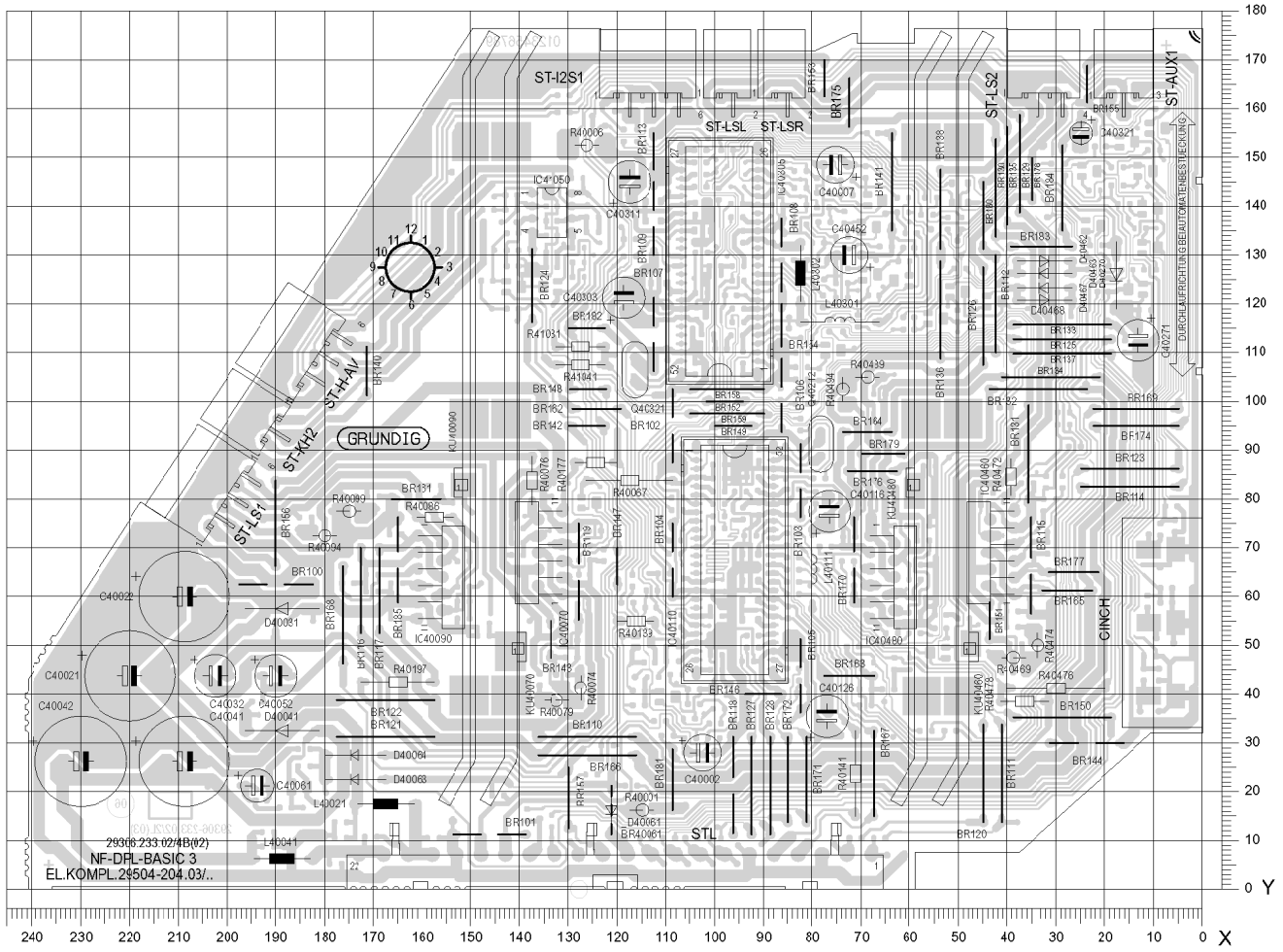



| Spannungstabelle<br>Table of Voltages | |
|---|---|
| +1 | +~2V |
| +2 | +5V |
| +3 | +*3.3V PA-/PLUS<br>+5V LFR |
| +4 | +5V |
| +4A | +5V |
| +5 | +5V |
| +7 | +~2V |
| +B | +~2V |
| +B1 | +~2V |
| +C | +200V |
| +D | +26V |
| +E | +6.5V |
| +E1 | +6.5V |
| +F | +5V |
| +F/1 | +5V |
| +F/2 | +5V |
| +F/3 | +5V |
| +G | +~6.5V<br>+~3V CUC 1931 STATUS |
| +G/1 | +~6.5V<br>+~3V CUC 1931 STATUS |
| +G/2 | +~5.5V<br>+~2V CUC 1931 STATUS |
| -G | -13.5V<br>-13V CUC 1931 STATUS |
| -G/1 | -13.5V<br>-13V CUC 1931 STATUS |
| -G/2 | -15.5V<br>-12V CUC 1931 STATUS |
| +H | +5V |
| +K | +~3V |
| -K | -13V |
| +M | +~6V |
| +N | +5V<br>+*3.3V PA-/PLUS |
| +Q | +6.5V |
| +Q/1 | +6.5V |
| +Q/3 | +6.5V |
| +OEKO | +9.5V – +14V |

Bei den in den Schaltplänen angegebenen Messwerten handelt es sich um Näherungswerte!

The measured values given in the circuit diagrams are approximates!

**Bestückungsseite, Ansicht von oben**
**Component Side, Top View**

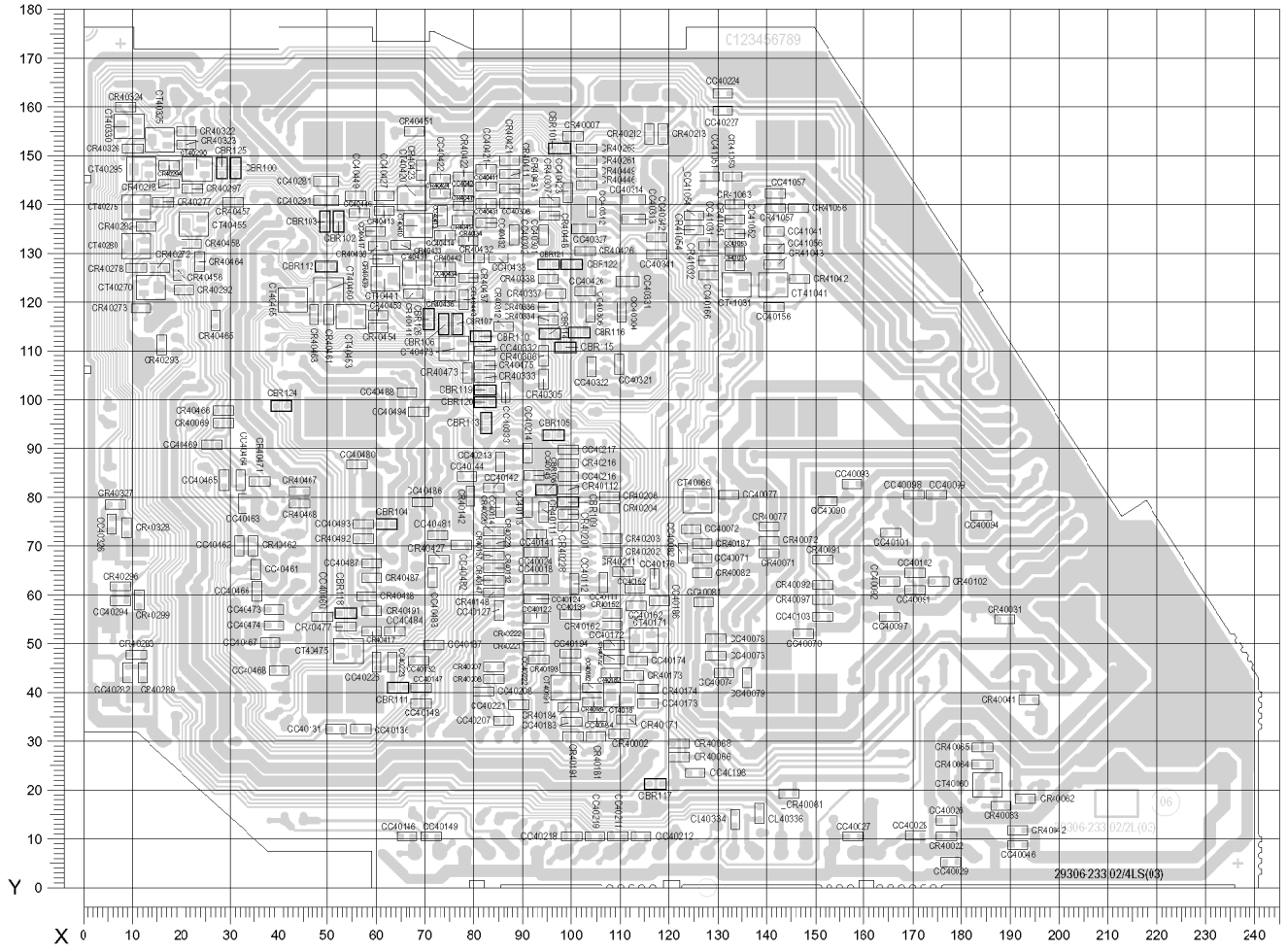



**Koordinaten für die Bauteile der Bestückungsseite (Oberseite)**
**Coordinates of the Components on the Components Side (Top Side)**

| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| BR100 | 190 | 63 |
| BR101 | 146 | 11 |
| BR102 | 109 | 95 |
| BR103 | 83 | 64 |
| BR104 | 109 | 68 |
| BR105 | 83 | 44 |
| BR106 | 86 | 101 |
| BR107 | 113 | 114 |
| BR108 | 86 | 130 |
| BR109 | 113 | 138 |
| BR110 | 126 | 31 |
| BR111 | 41 | 24 |
| BR112 | 43 | 129 |
| BR113 | 113 | 151 |
| BR114 | 15 | 83 |
| BR115 | 35 | 66 |
| BR116 | 173 | 61 |
| BR117 | 169 | 61 |
| BR118 | 96 | 21 |
| BR119 | 128 | 65 |
| BR120 | 45 | 24 |
| BR121 | 167 | 31 |
| BR122 | 167 | 39 |
| BR123 | 15 | 86 |
| BR124 | 138 | 124 |
| BR125 | 29 | 113 |
| BR126 | 45 | 117 |
| BR127 | 98 | 21 |
| BR128 | 89 | 21 |
| BR129 | 38 | 149 |
| BR130 | 43 | 144 |
| BR131 | 36 | 89 |
| BR132 | 34 | 102 |
| BR133 | 29 | 116 |
| BR134 | 31 | 105 |
| BR135 | 40 | 146 |
| BR136 | 54 | 119 |
| BR137 | 29 | 110 |
| BR138 | 54 | 139 |
| BR140 | 171 | 106 |
| BR141 | 64 | 145 |
| BR142 | 126 | 95 |
| BR143 | 134 | 51 |
| BR144 | 24 | 30 |
| BR146 | 90 | 40 |
| BR147 | 120 | 66 |
| BR148 | 126 | 102 |
| BR149 | 96 | 95 |
| BR150 | 29 | 35 |
| BR151 | 44 | 55 |
| BR152 | 98 | 100 |
| BR153 | 78 | 166 |
| BR154 | 86 | 116 |
| BR155 | 24 | 166 |
| BR156 | 190 | 75 |
| BR157 | 130 | 19 |
| BR158 | 98 | 102 |
| BR159 | 98 | 98 |
| BR161 | 161 | 80 |
| BR162 | 124 | 98 |
| BR163 | 73 | 44 |
| BR164 | 69 | 94 |
| BR165 | 28 | 61 |
| BR166 | 126 | 28 |
| BR167 | 68 | 24 |
| BR168 | 176 | 56 |
| BR169 | 14 | 98 |
| BR170 | 72 | 68 |
| BR171 | 81 | 23 |
| BR172 | 85 | 23 |
| BR174 | 14 | 95 |
| BR175 | 73 | 161 |
| BR176 | 68 | 86 |
| BR177 | 27 | 65 |
| BR178 | 35 | 146 |
| BR179 | 66 | 89 |
| BR180 | 45 | 138 |
| BR181 | 109 | 23 |
| BR182 | 126 | 115 |
| BR183 | 33 | 132 |
| BR184 | 29 | 144 |
| BR185 | 165 | 68 |
| BR40061 | 121 | 16 |
| C40002 | 103 | 28 |
| C40007 | 75 | 149 |
| C40021 | 221 | 44 |
| C40022 | 209 | 60 |
| C40032 | 203 | 44 |
| C40041 | 209 | 26 |
| C40042 | 231 | 26 |
| C40052 | 190 | 44 |
| C40061 | 194 | 21 |
| C40116 | 77 | 77 |
| C40126 | 77 | 35 |
| C40271 | 13 | 113 |
| C40302 | 119 | 121 |
| C40311 | 117 | 145 |
| C40321 | 25 | 155 |
| C40452 | 72 | 130 |
| CINCH | 4 | 55 |
| D40031 | 189 | 58 |
| D40041 | 189 | 33 |
| D40063 | 174 | 23 |
| D40064 | 174 | 28 |
| D40270 | 18 | 126 |
| D40462 | 32 | 129 |
| D40463 | 32 | 126 |
| D40467 | 32 | 123 |
| D40468 | 32 | 121 |
| IC40070 | 136 | 69 |
| IC40090 | 156 | 64 |
| IC40110 | 96 | 68 |
| IC40305 | 99 | 29 |
| IC40460 | 43 | 69 |
| IC40480 | 63 | 64 |
| IC41050 | 133 | 39 |
| KJ40070 | 140 | 49 |
| KJ40090 | 152 | 83 |
| KJ40460 | 45 | 49 |
| KJ40480 | 59 | 83 |
| L40021 | 167 | 18 |
| L40041 | 189 | 6 |
| L40111 | 80 | 66 |
| L40301 | 74 | 116 |
| L40302 | 83 | 126 |
| C40212 | 78 | 91 |
| C40321 | 117 | 107 |
| R40001 | 115 | 16 |
| R40006 | 126 | 52 |
| R40067 | 117 | 84 |
| R40074 | 127 | 41 |
| R40076 | 138 | 84 |
| R40079 | 133 | 39 |
| R40086 | 158 | 76 |
| R40094 | 180 | 73 |
| R40099 | 175 | 78 |
| R40139 | 115 | 55 |
| R40141 | 71 | 24 |
| R40177 | 124 | 88 |
| R40197 | 166 | 43 |
| R40469 | 39 | 48 |
| R40472 | 39 | 84 |
| R40474 | 34 | 50 |
| R40476 | 30 | 41 |
| R40478 | 37 | 38 |
| R40489 | 69 | 105 |
| R40494 | 74 | 102 |
| R41031 | 127 | 111 |
| R41041 | 127 | 108 |
| ST-AUX01 | 16 | 167 |
| ST-H-AV | 185 | 111 |
| ST-I2S1 | 114 | 167 |
| ST-KH02 | 196 | 97 |
| ST-LS01 | 204 | 82 |
| ST-LS02 | 33 | 167 |
| ST-LSL | 98 | 167 |
| ST-LSR | 85 | 167 |
| STL | 120 | 2 |
| _C40061 | 121 | 16 |

CUC 1832 / 1930 / 1931 Platinenabbildungen und Schaltpläne / Layout of the PCBs and Circuit Diagrams

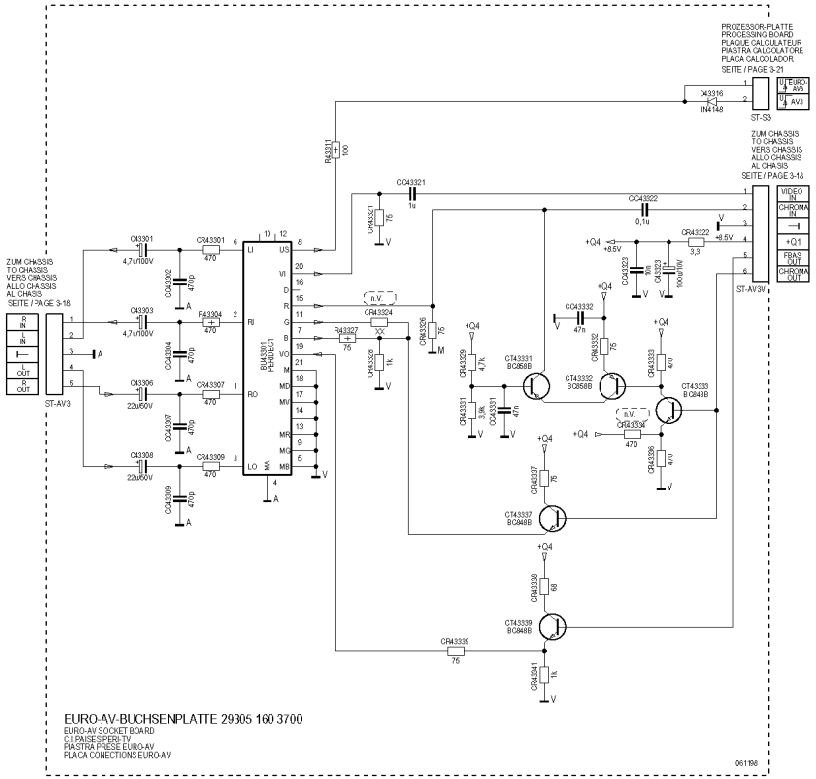
**Lötseite, Ansicht von unten**
**Solder Side, Bottom View**



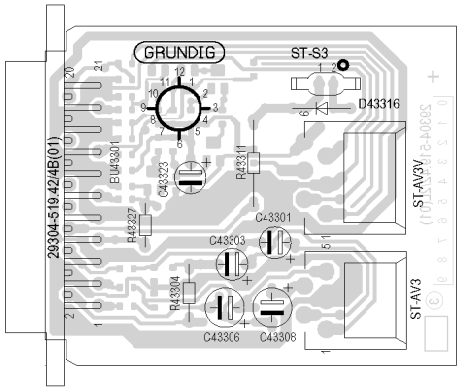

**Koordinaten für die Bauteile der Lötseite (Unterseite) / Coordinates of the components on the Solder Side (Bottom Side)**

| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| CBR100 | 31 | 148 |
| CBR101 | 98 | 151 |
| CBR102 | 52 | 136 |
| CBR103 | 49 | 136 |
| CBR104 | 62 | 74 |
| CBR105 | 96 | 93 |
| CBR106 | 74 | 116 |
| CBR107 | 77 | 116 |
| CBR108 | 95 | 81 |
| CBR109 | 99 | 79 |
| CBR110 | 81 | 113 |
| CBR111 | 85 | 41 |
| CBR112 | 50 | 127 |
| CBR113 | 83 | 95 |
| CBR114 | 96 | 114 |
| CBR115 | 99 | 111 |
| CBR116 | 101 | 114 |
| CBR117 | 117 | 21 |
| CBR118 | 54 | 56 |
| CBR119 | 82 | 102 |
| CBR120 | 82 | 99 |
| CBR121 | 95 | 128 |
| CBR122 | 100 | 128 |
| CBR124 | 41 | 99 |
| CBR125 | 28 | 148 |
| CBR126 | 71 | 117 |
| CC40018 | 93 | 63 |
| CC40024 | 93 | 69 |
| CC40026 | 117 | 14 |
| CC40027 | 158 | 10 |
| CC40028 | 170 | 11 |
| CC40029 | 178 | 5 |
| CC40046 | 192 | 9 |
| CC40070 | 148 | 52 |
| CC40071 | 127 | 68 |
| CC40072 | 125 | 73 |
| CC40073 | 130 | 48 |
| CC40074 | 131 | 44 |
| CC40077 | 132 | 81 |
| CC40078 | 130 | 51 |
| CC40079 | 136 | 43 |
| CC40081 | 127 | 58 |
| CC40082 | 123 | 69 |
| CC40090 | 152 | 79 |
| CC40091 | 170 | 61 |
| CC40092 | 165 | 63 |
| CC40093 | 158 | 83 |
| CC40094 | 164 | 76 |
| CC40097 | 165 | 56 |
| CC40098 | 170 | 61 |
| CC40099 | 175 | 81 |
| CC40101 | 166 | 73 |
| CC40102 | 170 | 65 |
| CC40103 | 151 | 56 |
| CC40111 | 107 | 63 |
| CC40112 | 100 | 62 |
| CC40113 | 91 | 78 |
| CC40114 | 85 | 78 |
| CC40122 | 93 | 55 |
| CC40124 | 93 | 59 |
| CC40127 | 85 | 57 |
| CC40131 | 52 | 33 |
| CC40132 | 69 | 47 |
| CC40136 | 57 | 33 |
| CC40137 | 72 | 50 |
| CC40138 | 100 | 56 |
| CC40141 | 93 | 73 |
| CC40142 | 84 | 82 |
| CC40143 | 92 | 84 |
| CC40144 | 78 | 84 |
| CC40146 | 66 | 10 |
| CC40147 | 69 | 41 |
| CC40148 | 69 | 38 |
| CC40149 | 71 | 10 |
| CC40152 | 113 | 61 |
| CC40156 | 142 | 119 |
| CC40162 | 113 | 58 |
| CC40166 | 128 | 125 |
| CC40172 | 109 | 50 |
| CC40173 | 116 | 38 |
| CC40174 | 114 | 47 |
| CC40176 | 117 | 63 |
| CC40182 | 104 | 41 |
| CC40183 | 100 | 34 |
| CC40184 | 105 | 35 |
| CC40186 | 118 | 59 |
| CC40194 | 100 | 48 |
| CC40196 | 125 | 23 |
| CC40207 | 86 | 34 |
| CC40208 | 82 | 40 |
| CC40211 | 109 | 10 |
| CC40212 | 114 | 10 |
| CC40213 | 85 | 87 |
| CC40214 | 91 | 89 |
| CC40216 | 99 | 84 |
| CC40217 | 99 | 90 |
| CC40218 | 100 | 10 |
| CC40219 | 105 | 10 |
| CC40222 | 89 | 38 |
| CC40223 | 93 | 47 |
| CC40224 | 63 | 46 |
| CC40226 | 131 | 63 |
| CC40227 | 60 | 46 |
| CC40228 | 131 | 59 |
| CC40282 | 50 | 45 |
| CC40284 | 9 | 44 |
| CC40297 | 50 | 41 |
| CC40298 | 8 | 59 |
| CC40301 | 94 | 34 |
| CC40302 | 88 | 34 |
| CC40304 | 110 | 18 |
| CC40306 | 104 | 18 |
| CC40308 | 87 | 40 |
| CC40312 | 104 | 40 |
| CC40313 | 113 | 37 |
| CC40314 | 113 | 41 |
| CC40321 | 110 | 07 |
| CC40322 | 104 | 07 |
| CC40326 | 8 | 74 |
| CC40327 | 102 | 35 |
| CC40331 | 111 | 24 |
| CC40332 | 82 | 10 |
| CC40333 | 86 | 01 |
| CC40341 | 117 | 30 |
| CC40342 | 117 | 33 |
| CC40411 | 83 | 44 |
| CC40413 | 73 | 38 |
| CC40414 | 74 | 34 |
| CC40417 | 80 | 34 |
| CC40421 | 83 | 47 |
| CC40422 | 73 | 45 |
| CC40423 | 99 | 42 |
| CC40424 | 78 | 43 |
| CC40426 | 103 | 22 |
| CC40427 | 62 | 42 |
| CC40431 | 83 | 40 |
| CC40432 | 83 | 36 |
| CC40433 | 85 | 29 |
| CC40434 | 74 | 24 |
| CC40446 | 57 | 38 |
| CC40449 | 56 | 42 |
| CC40460 | 49 | 56 |
| CC40461 | 35 | 65 |
| CC40462 | 32 | 70 |
| CC40463 | 33 | 79 |
| CC40464 | 32 | 84 |
| CC40465 | 29 | 84 |
| CC40466 | 35 | 61 |
| CC40467 | 38 | 50 |
| CC40468 | 40 | 44 |
| CC40469 | 26 | 91 |
| CC40478 | 39 | 57 |
| CC40479 | 39 | 54 |
| CC40480 | 56 | 67 |
| CC40481 | 73 | 72 |
| CC40482 | 77 | 70 |
| CC40486 | 72 | 63 |
| CC40484 | 64 | 53 |
| CC40486 | 69 | 79 |
| CC40487 | 59 | 67 |
| CC40488 | 66 | 01 |
| CC40493 | 57 | 74 |
| CC40494 | 69 | 98 |
| CC41031 | 128 | 32 |
| CC41041 | 142 | 34 |
| CC41051 | 128 | 46 |
| CC41052 | 133 | 34 |
| CC41053 | 133 | 31 |
| CC41056 | 142 | 31 |
| CL40334 | 133 | 14 |
| CL40336 | 139 | 15 |
| CR40002 | 110 | 32 |
| CR40007 | 100 | 134 |
| CR40022 | 177 | 10 |
| CR40031 | 189 | 35 |
| CR40041 | 194 | 38 |
| CR40042 | 192 | 12 |
| CR40062 | 193 | 18 |
| CR40063 | 188 | 17 |
| CR40064 | 184 | 26 |
| CR40065 | 184 | 29 |
| CR40066 | 122 | 27 |
| CR40068 | 122 | 30 |
| CR40069 | 28 | 35 |
| CR40071 | 141 | 39 |
| CR40072 | 141 | 71 |
| CR40077 | 141 | 74 |
| CR40082 | 127 | 35 |
| CR40091 | 151 | 37 |
| CR40092 | 151 | 52 |
| CR40097 | 151 | 39 |
| CR40102 | 175 | 33 |
| CR40111 | 94 | 77 |
| CR40112 | 96 | 31 |
| CR40132 | 84 | 35 |
| CR40137 | 84 | 38 |
| CR40142 | 79 | 30 |
| CR40147 | 84 | 33 |
| CR40148 | 84 | 31 |
| CR40152 | 108 | 36 |
| CR40162 | 108 | 34 |
| CR40171 | 111 | 35 |
| CR40172 | 109 | 47 |
| CR40173 | 113 | 43 |
| CR40174 | 116 | 41 |
| CR40181 | 105 | 31 |
| CR40182 | 108 | 44 |
| CR40183 | 104 | 38 |
| CR40184 | 99 | 37 |
| CR40187 | 127 | 71 |
| CR40191 | 100 | 31 |
| CR40193 | 100 | 45 |
| CR40201 | 99 | 77 |
| CR40202 | 108 | 59 |
| CR40203 | 108 | 72 |
| CR40204 | 108 | 78 |
| CR40206 | 108 | 30 |
| CR40207 | 84 | 45 |
| CR40208 | 84 | 43 |
| CR40211 | 110 | 35 |
| CR40212 | 116 | 155 |
| CR40213 | 119 | 155 |
| CR40216 | 99 | 37 |
| CR40221 | 92 | 49 |
| CR40222 | 92 | 52 |
| CR40223 | 84 | 71 |
| CR40226 | 84 | 73 |
| CR40228 | 96 | 74 |
| CR40261 | 103 | 149 |
| CR40263 | 103 | 151 |
| CR40272 | 15 | 127 |
| CR40273 | 12 | 119 |
| CR40277 | 16 | 141 |
| CR40278 | 11 | 127 |
| CR40282 | 13 | 135 |
| CR40283 | 11 | 18 |
| CR40289 | 12 | 44 |
| CR40292 | 20 | 123 |
| CR40293 | 16 | 111 |
| CR40294 | 18 | 148 |
| CR40296 | 8 | 32 |
| CR40297 | 22 | 113 |
| CR40298 | 18 | 144 |
| CR40299 | 11 | 59 |
| CR40305 | 94 | 134 |
| CR40306 | 94 | 139 |
| CR40307 | 96 | 141 |
| CR40312 | 86 | 115 |
| CR40322 | 21 | 155 |
| CR40323 | 21 | 152 |
| CR40324 | 9 | 130 |
| CR40326 | 10 | 151 |
| CR40327 | 7 | 78 |
| CR40328 | 9 | 74 |
| CR40334 | 95 | 116 |
| CR40336 | 95 | 119 |
| CR40337 | 97 | 122 |
| CR40338 | 95 | 125 |
| CR40411 | 87 | 146 |
| CR40412 | 78 | 140 |
| CR40413 | 62 | 139 |
| CR40414 | 78 | 137 |
| CR40417 | 59 | 53 |
| CR40421 | 87 | 149 |
| CR40422 | 78 | 146 |
| CR40423 | 69 | 147 |
| CR40424 | 73 | 142 |
| CR40426 | 103 | 131 |
| CR40427 | 73 | 67 |
| CR40431 | 87 | 143 |
| CR40432 | 80 | 129 |
| CR40433 | 65 | 132 |
| CR40434 | 79 | 133 |
| CR40436 | 74 | 121 |
| CR40437 | 79 | 125 |
| CR40438 | 60 | 132 |
| CR40439 | 61 | 129 |
| CR40441 | 68 | 122 |
| CR40442 | 74 | 127 |
| CR40443 | 78 | 120 |
| CR40446 | 103 | 144 |
| CR40448 | 96 | 138 |
| CR40449 | 103 | 147 |
| CR40451 | 68 | 155 |
| CR40453 | 60 | 117 |
| CR40454 | 60 | 115 |
| CR40456 | 19 | 126 |
| CR40457 | 30 | 141 |
| CR40458 | 22 | 132 |
| CR40461 | 50 | 117 |
| CR40462 | 35 | 70 |
| CR40463 | 47 | 117 |
| CR40464 | 24 | 128 |
| CR40465 | 27 | 116 |
| CR40466 | 28 | 98 |
| CR40467 | 44 | 81 |
| CR40468 | 44 | 79 |
| CR40471 | 36 | 83 |
| CR40473 | 78 | 106 |
| CR40475 | 82 | 107 |
| CR40477 | 54 | 53 |
| CR40487 | 59 | 63 |
| CR40488 | 58 | 60 |
| CR40491 | 59 | 57 |
| CR40492 | 57 | 72 |
| CR41032 | 128 | 128 |
| CR41033 | 133 | 127 |
| CR41042 | 147 | 125 |
| CR41043 | 142 | 128 |
| CR41051 | 133 | 137 |
| CR41053 | 133 | 146 |
| CR41054 | 125 | 135 |
| CR41056 | 147 | 139 |
| CR41057 | 142 | 139 |
| CR41063 | 133 | 140 |
| CT40060 | 185 | 21 |
| CT40066 | 126 | 79 |
| CT40071 | 115 | 51 |
| CT40081 | 110 | 40 |
| CT40091 | 99 | 41 |
| CT40270 | 14 | 123 |
| CT40275 | 11 | 140 |
| CT40280 | 11 | 132 |
| CT40290 | 23 | 147 |
| CT40295 | 12 | 147 |
| CT40330 | 9 | 156 |
| CT40410 | 69 | 136 |
| CT40420 | 67 | 141 |
| CT40431 | 68 | 126 |
| CT40441 | 62 | 125 |
| CT40453 | 55 | 117 |
| CT40455 | 23 | 136 |
| CT40460 | 50 | 123 |
| CT40465 | 43 | 120 |
| CT40473 | 76 | 110 |
| CT40475 | 54 | 48 |
| CT41031 | 134 | 124 |
| CT41041 | 141 | 124 |
| _CC41054 | 125 | 138 |
| _CC41057 | 142 | 142 |
| _CR40061 | 144 | 19 |

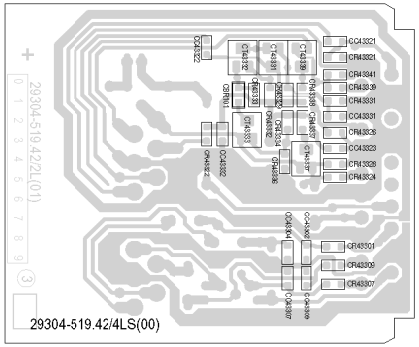
## EURO-AV-Buchsenplatte / EURO-AV Socket Board




**Bestückungsseite, Ansicht von oben**
**Component Side, Top View**



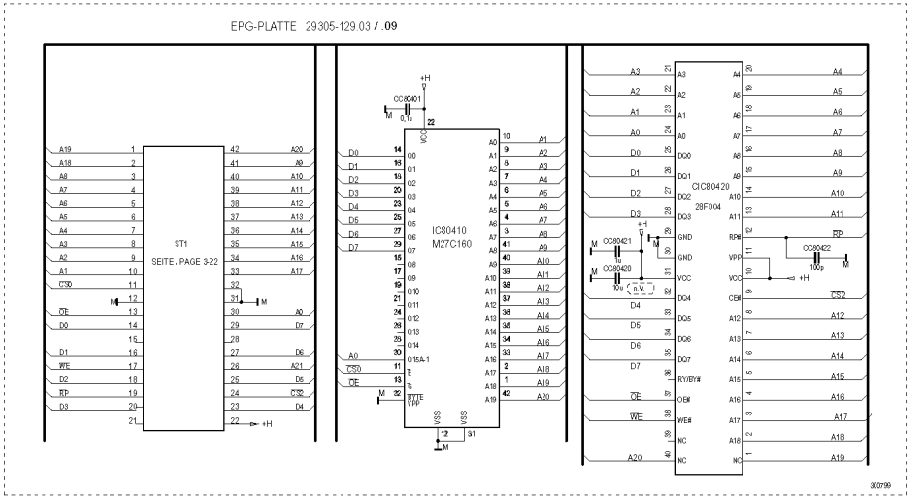

**Lötseite, Ansicht von unten**
**Solder Side, Bottom View**



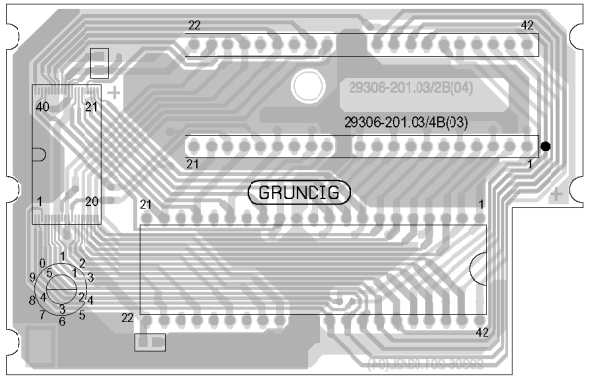




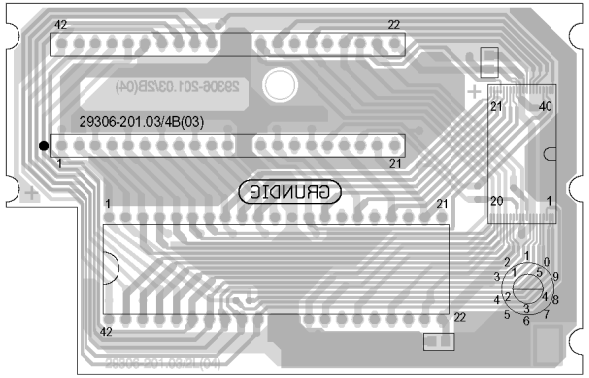

## EPG-Platte / EPG Board



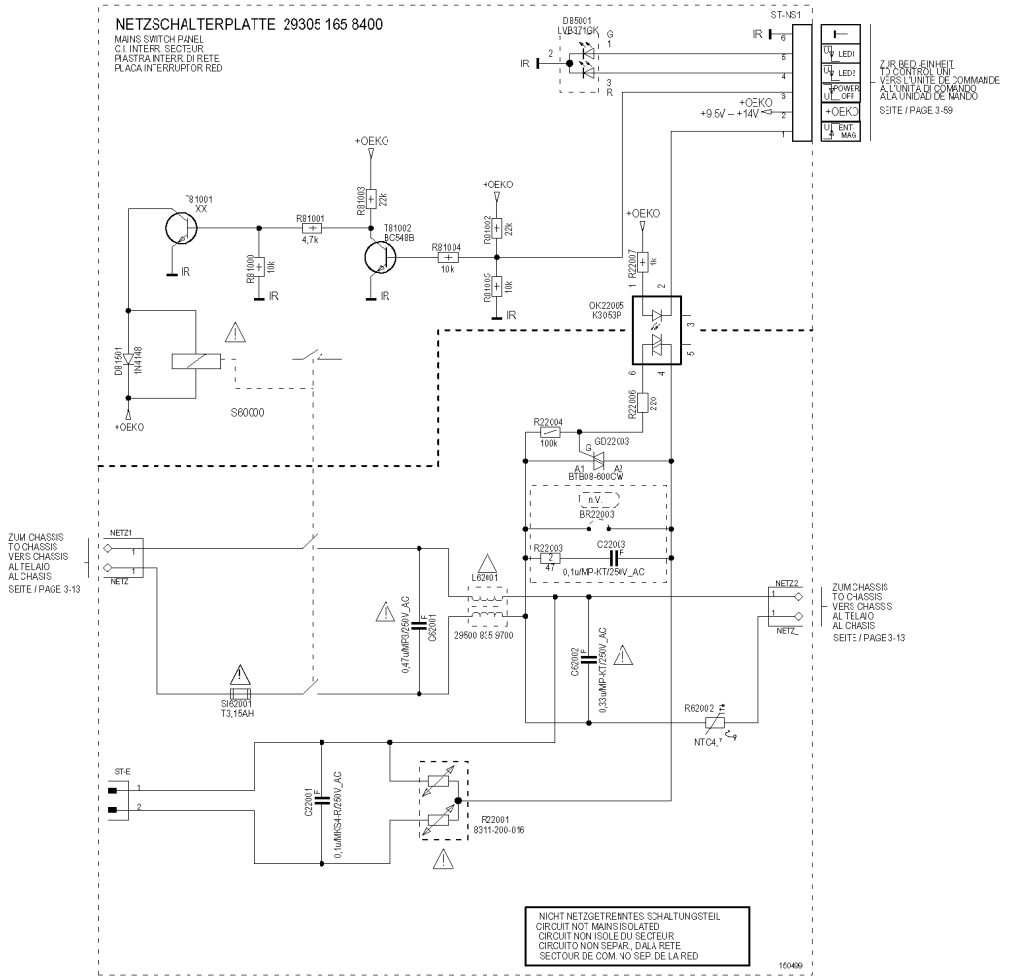

**Bestückungsseite. Ansicht von oben**
**Component Side, Top View**



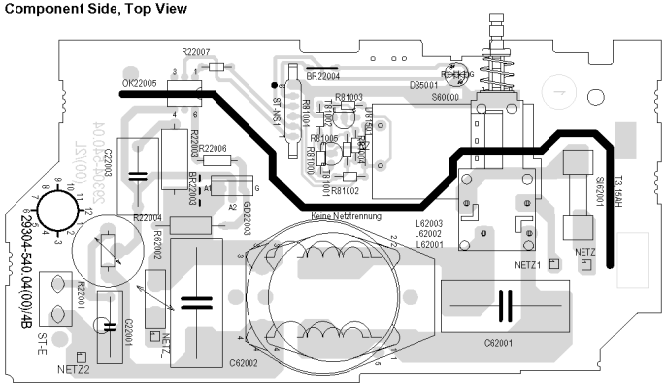

**Lötseite. Ansicht von unten**
**Solder Side, Bottom View**



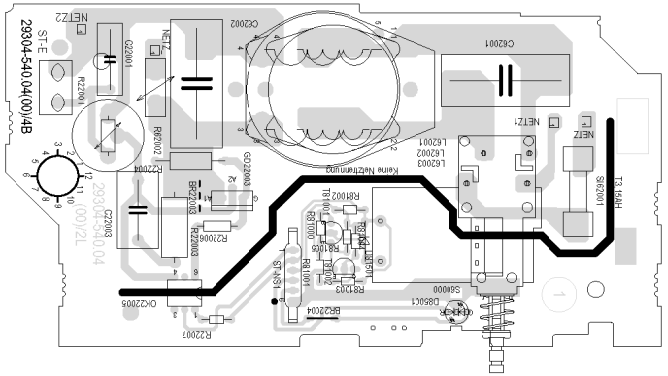
## Netzschalterplatte / Mains Switch Board




**Bestückungsseite, Ansicht von oben**
**Component Side, Top View**



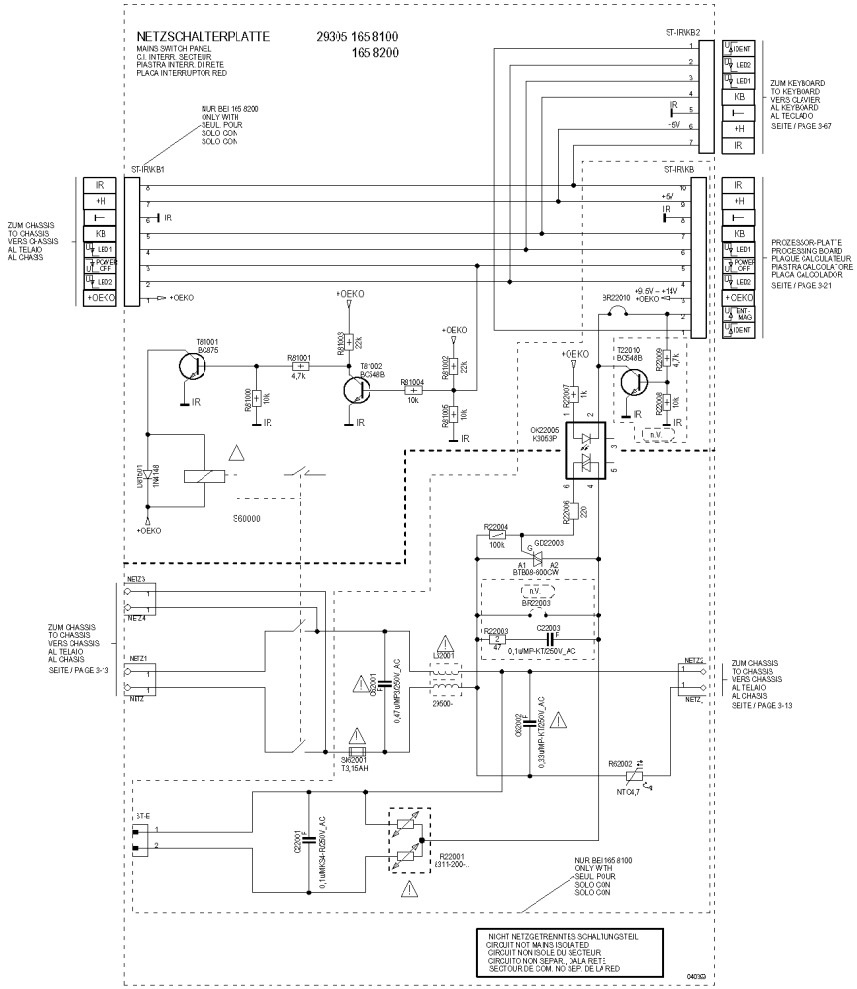

**Lötseite, Ansicht von unten**
**Solder Side, Bottom View**



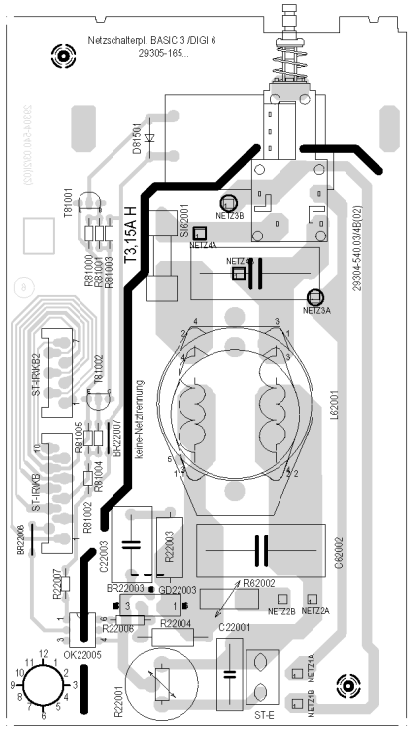



CUC 1832 / 1930 / 1931 Platinenabbildungen und Schaltpläne / Layout of the PCBs and Circuit Diagrams

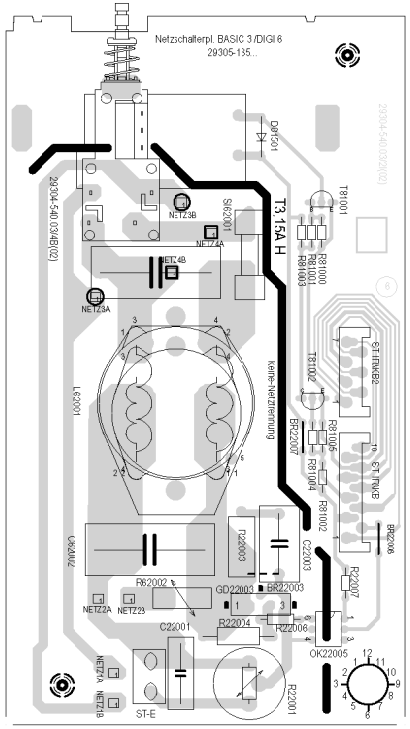
## Netzschalterplatte / Mains Switch Board 29305 165 8100



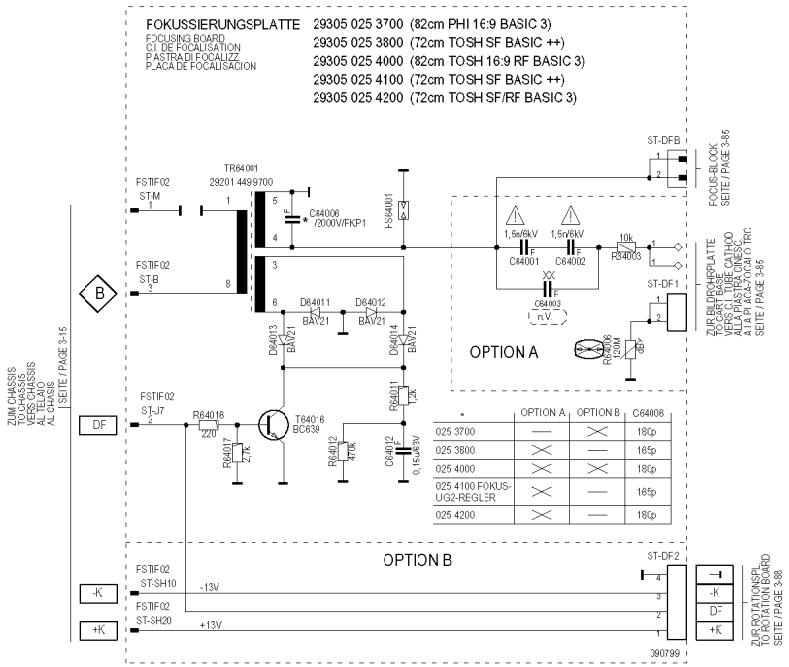

**Bestückungsseite, Ansicht von oben**
**Component Side, Top View**



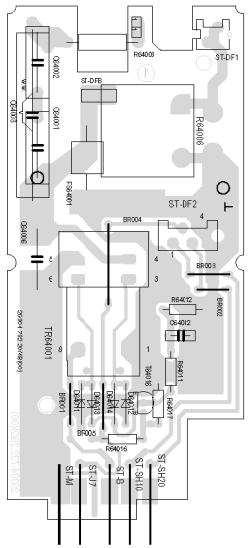

**Lötseite, Ansicht von unten**
**Solder Side, Bottom View**



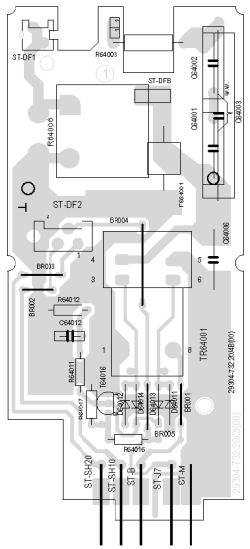
## Fokussierungsplatte / Focusing Board 29305 025 3700/4200




**Bestückungsseite, Ansicht von oben**
**Component Side, Top View**



**Lötseite, Ansicht von unten**
**Solder Side, Bottom View**

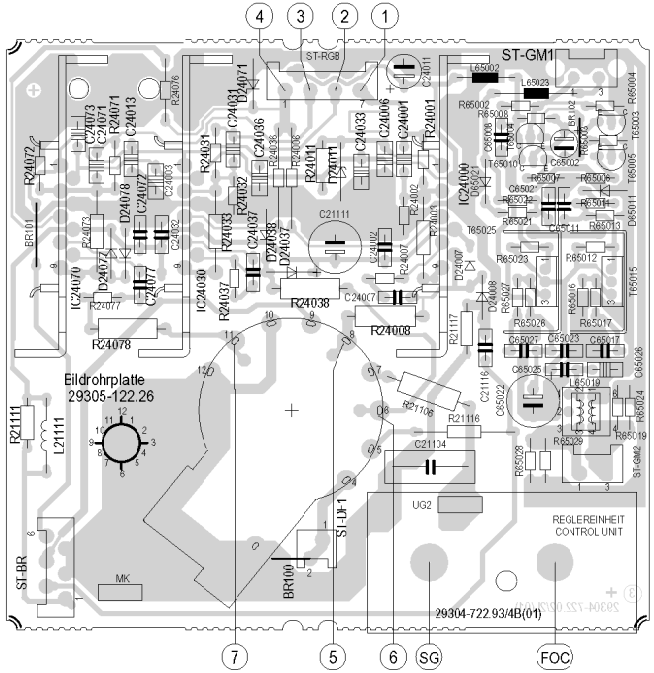




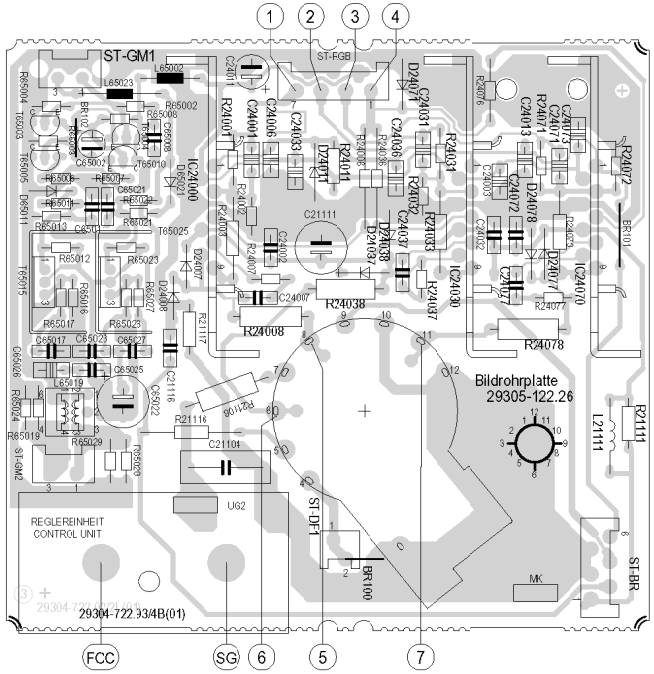


## Bildrohrplatte / CRT Panel

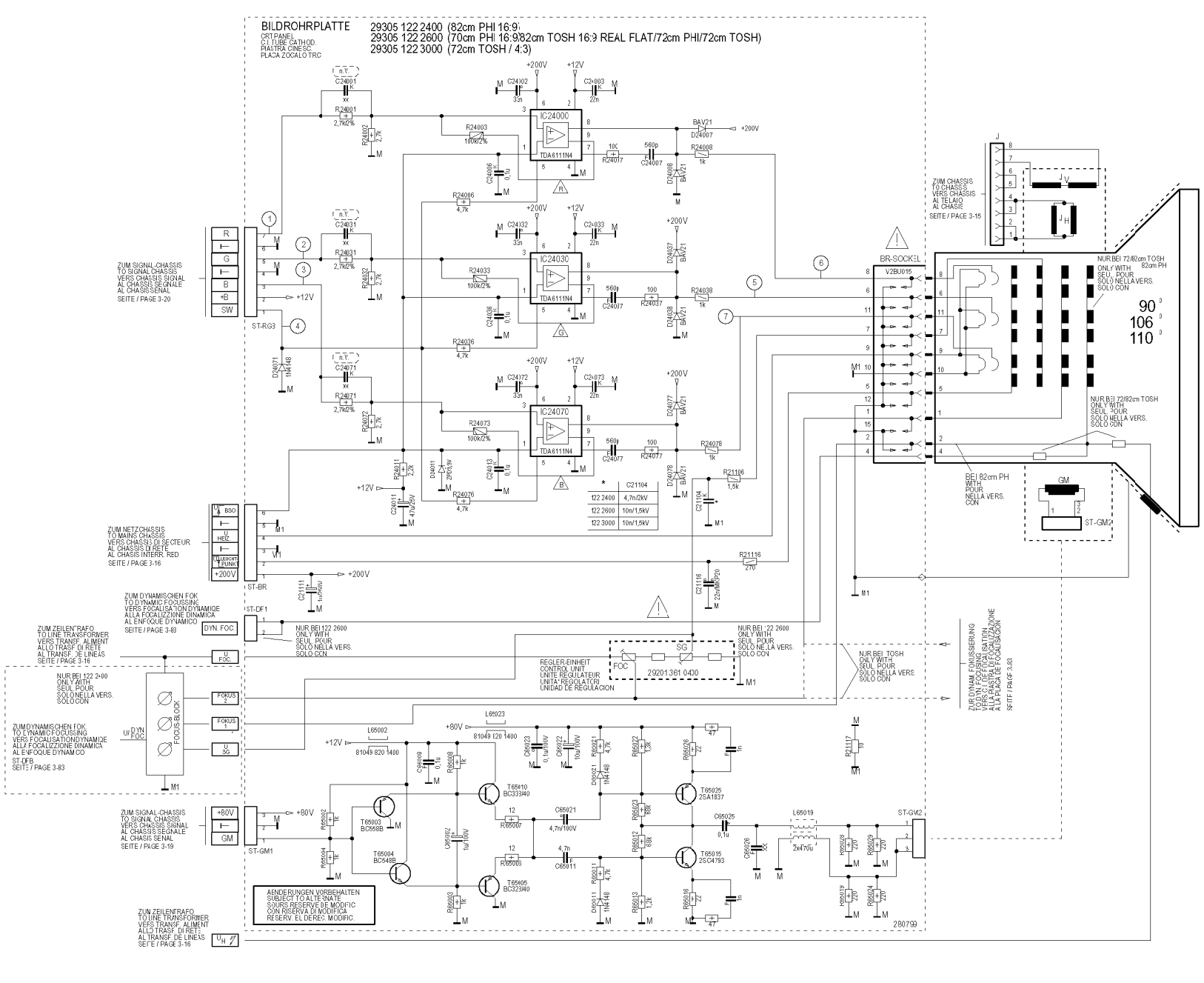
**Bestückungsseite, Ansicht von oben**
**Component Side, Top View**

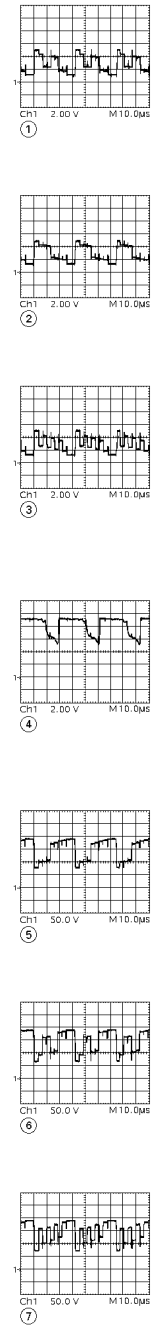



**Lötseite, Ansicht von unten**
**Solder Side, Bottom View**

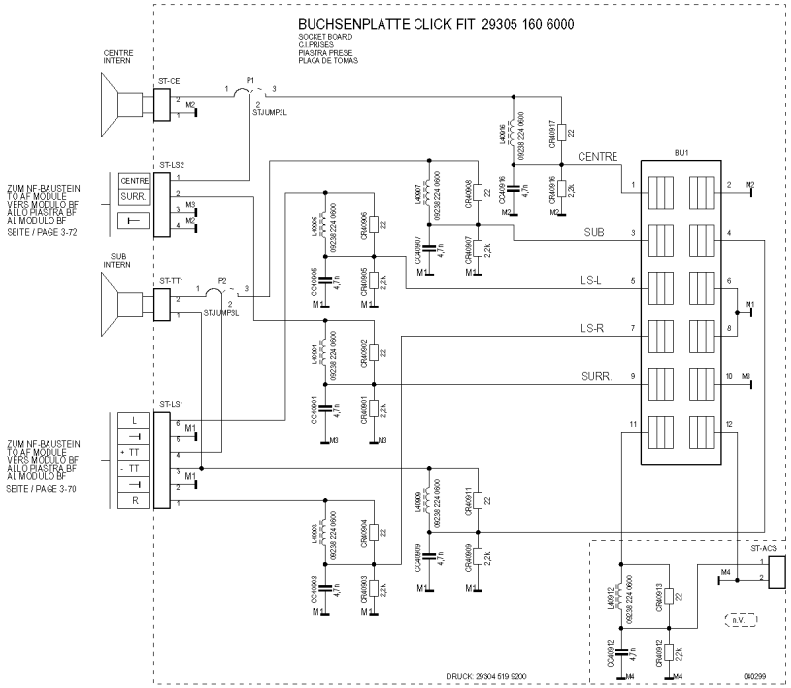


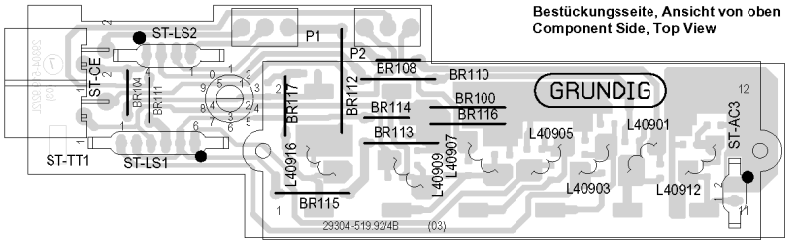
Platinenabbildungen und Schaltpläne / Layout of the PCBs and Circuit Diagrams CUC 1832 / 1930 / 1931

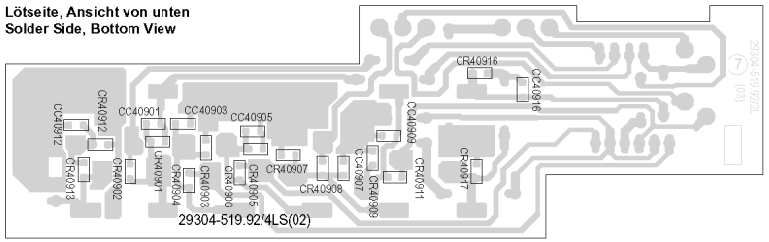


## Buchsenplatte Click Fit / Click Fit Socket Board



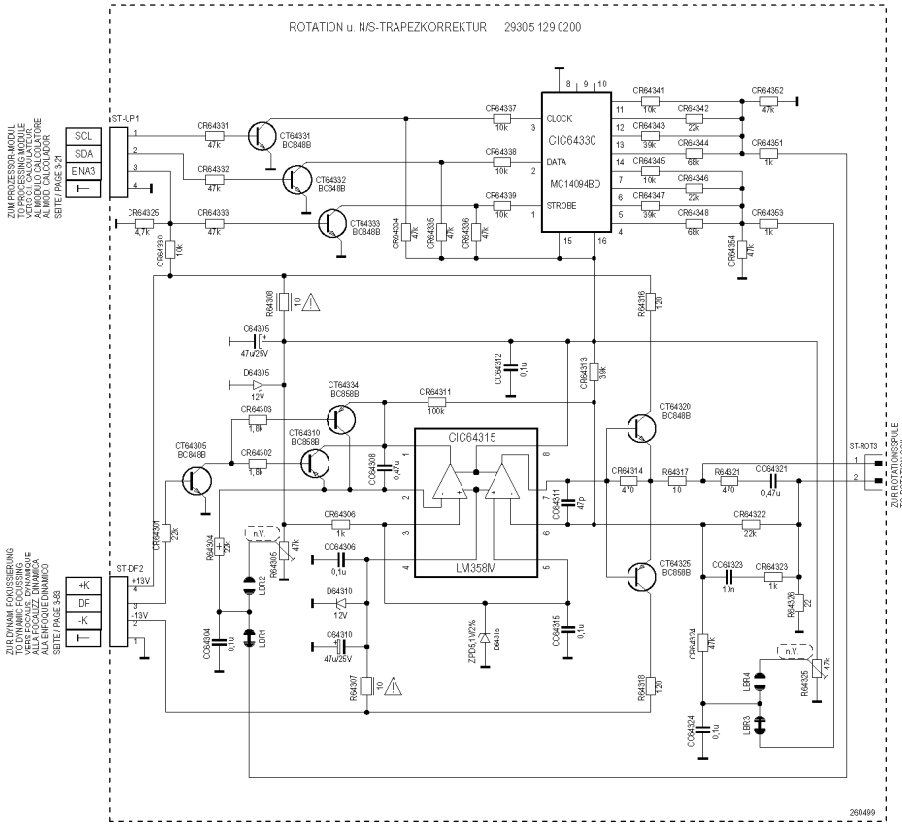



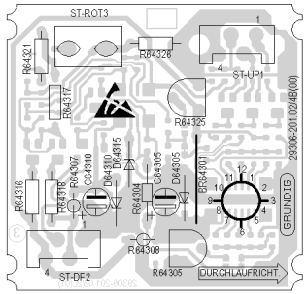



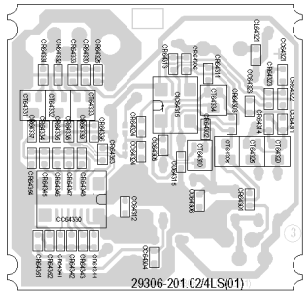





## Rotations- und N/S-Trapezkorrekturplatte / Rotation and N/S Trapezium Correction Board

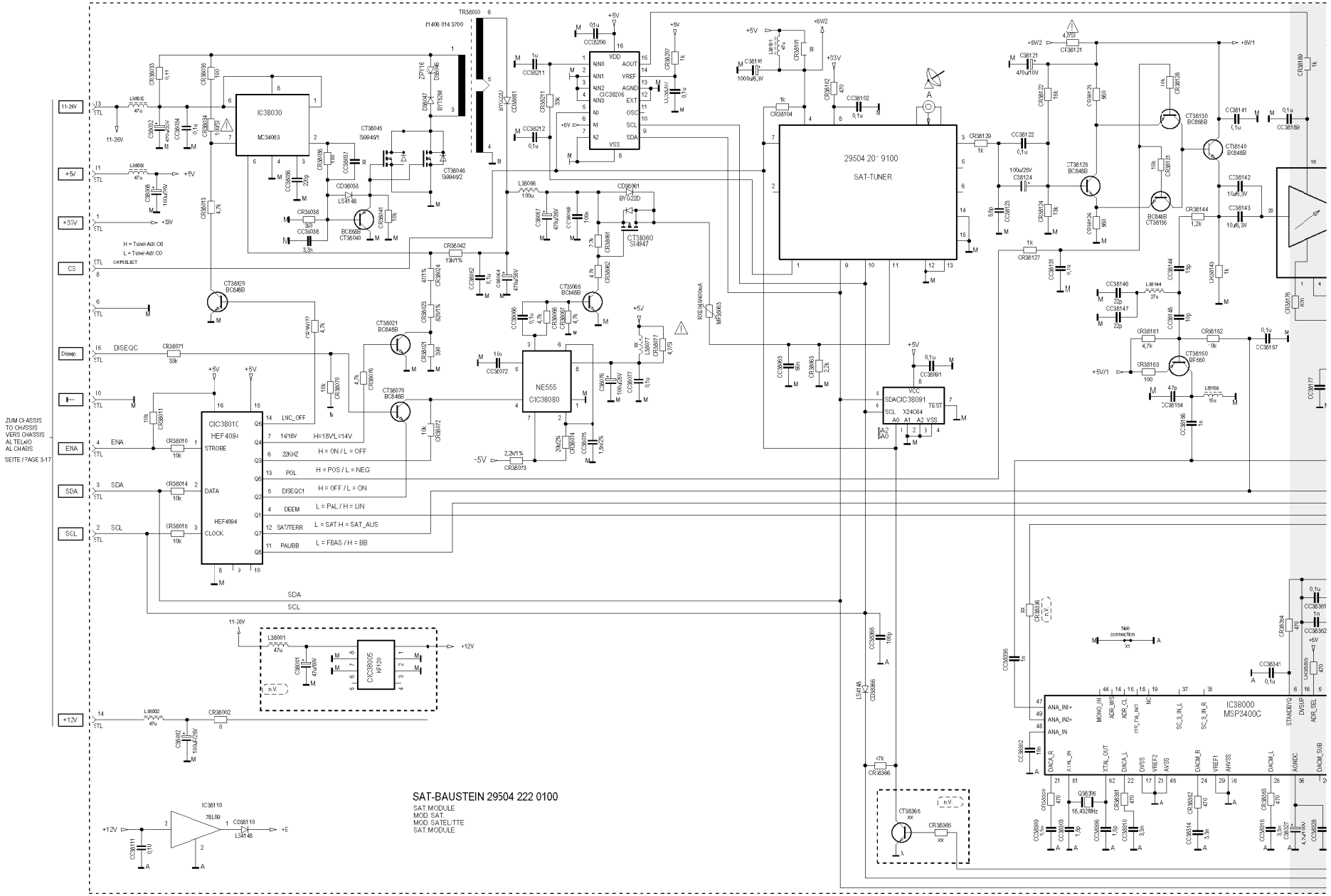


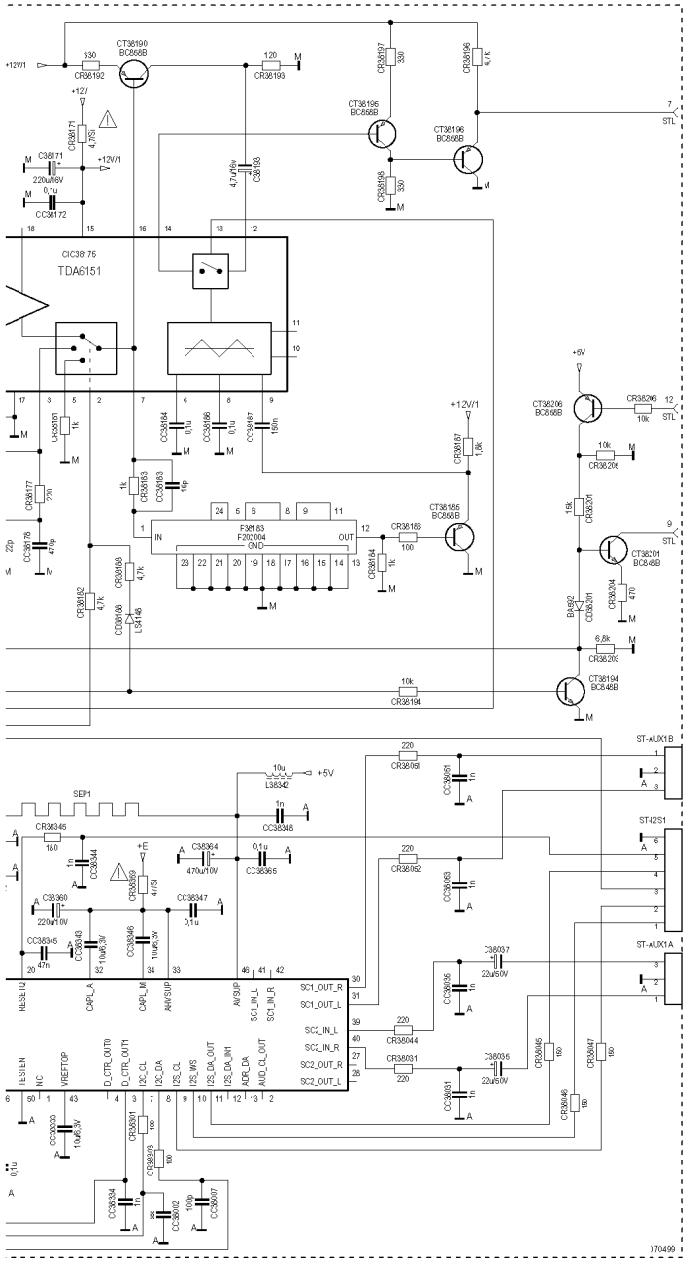



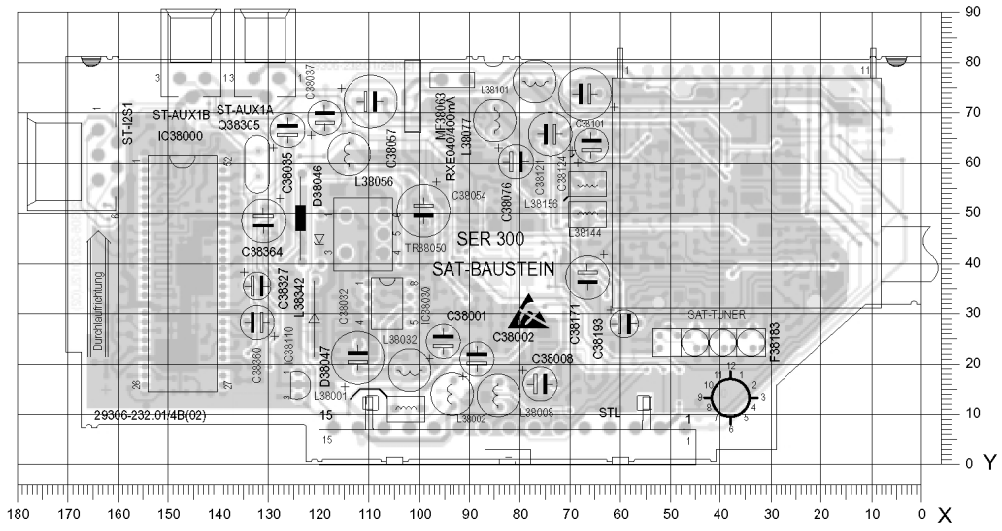
Platinenabbildungen und Schaltpläne / Layout of the PCBs and Circuit Diagrams CUC 1832 / 1930 / 1931

## SAT-Baustein / SAT Module





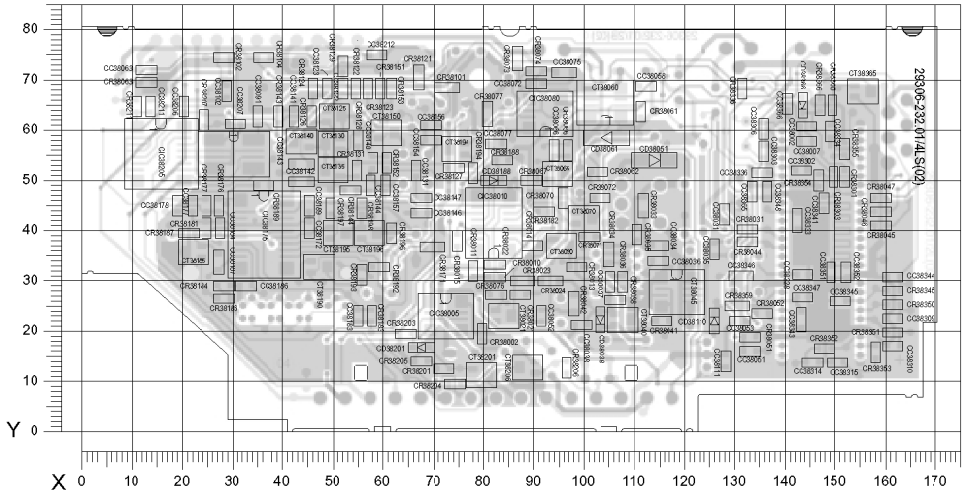

**Bestückungsseite, Ansicht von oben**
**Component Side, Top View**




**Koordinaten für die Bauteile der Bestückungsseite (Oberseite)**
**Coordinates of the Components on the Components Side (Top Side)**

| Pos.-Nr. / Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| C38C01 | 95 | 24 |
| C38C02 | 89 | 20 |
| C38C08 | 76 | 16 |
| C38C32 | 112 | 20 |
| C38C35 | 126 | 66 |
| C38C37 | 119 | 68 |
| C38C54 | 99 | 51 |
| C38C57 | 110 | 72 |
| C38C76 | 81 | 60 |
| C38101 | 66 | 73 |
| C38121 | 74 | 65 |
| C38124 | 66 | 63 |
| C38171 | 67 | 37 |
| C38193 | 59 | 28 |
| C38227 | 132 | 35 |
| C38360 | 132 | 28 |
| C38364 | 131 | 48 |
| D38046 | 120 | 44 |
| D38047 | 121 | 28 |
| F38183 | 42 | 24 |
| IC38000 | 147 | 38 |
| IC38030 | 106 | 32 |
| IC38110 | 124 | 15 |
| L38001 | 103 | 10 |
| L38002 | 94 | 14 |
| L38008 | 84 | 13 |
| L38032 | 102 | 18 |
| L38056 | 114 | 61 |
| L38077 | 85 | 68 |
| L38101 | 77 | 76 |
| L38144 | 67 | 49 |
| L38156 | 67 | 55 |
| L38342 | 124 | 48 |
| MF38063 | 94 | 76 |
| Q38305 | 132 | 59 |
| SAT-TUNER | 29 | 57 |
| ST-AUX01A | 131 | 81 |
| ST-AUX01B | 145 | 81 |
| ST-I2S1 | 169 | 60 |
| STL | 82 | 2 |
| TR38050 | 111 | 45 |

**Lötseite, Ansicht von unten**
**Solder Side, Bottom View**




**Koordinaten für die Bauteile der Lötseite (Unterseite)**
**Coordinates of the components on the Solder Side (Bottom Side)**

| Pos.-Nr. / Pos. No. | Koordinaten / Coordinates X | Y |
|---|---|---|
| CC38002 | 144 | 61 |
| CC38007 | 144 | 58 |
| CC38031 | 128 | 43 |
| CC38034 | 115 | 37 |
| CC38035 | 126 | 36 |
| CC38036 | 115 | 34 |
| CC38037 | 105 | 30 |
| CC38038 | 99 | 21 |
| CC38051 | 133 | 16 |
| CC38052 | 91 | 23 |
| CC38053 | 131 | 22 |
| CC38058 | 112 | 69 |
| CC38063 | 13 | 72 |
| CC38066 | 94 | 56 |
| CC38072 | 91 | 69 |
| CC38075 | 96 | 72 |
| CC38077 | 83 | 57 |
| CC38091 | 35 | 63 |
| CC38102 | 29 | 68 |
| CC38111 | 128 | 14 |
| CC38122 | 52 | 68 |
| CC38123 | 49 | 68 |
| CC38131 | 67 | 52 |
| CC38141 | 42 | 63 |
| CC38142 | 44 | 50 |
| CC38143 | 44 | 53 |
| CC38144 | 58 | 49 |
| CC38146 | 68 | 43 |
| CC38147 | 68 | 47 |
| CC38148 | 58 | 53 |
| CC38154 | 69 | 58 |
| CC38156 | 69 | 61 |
| CC38157 | 61 | 49 |
| CC38172 | 45 | 41 |
| CC38177 | 22 | 45 |
| CC38178 | 19 | 45 |
| CC38183 | 55 | 23 |
| CC38184 | 28 | 41 |
| CC38186 | 33 | 29 |
| CC38187 | 27 | 34 |

| Pos.-Nr. / Pos. No. | Koordinaten / Coordinates X | Y |
|---|---|---|
| CC38189 | 45 | 45 |
| CC38206 | 20 | 65 |
| CC38207 | 30 | 61 |
| CC38211 | 14 | 65 |
| CC38212 | 59 | 75 |
| CC38302 | 143 | 52 |
| CC38303 | 133 | 56 |
| CC38306 | 133 | 60 |
| CC38309 | 161 | 23 |
| CC38310 | 161 | 17 |
| CC38314 | 145 | 14 |
| CC38315 | 153 | 14 |
| CC38326 | 143 | 31 |
| CC38333 | 142 | 42 |
| CC38334 | 149 | 60 |
| CC38336 | 135 | 52 |
| CC38341 | 143 | 46 |
| CC38343 | 143 | 22 |
| CC38344 | 161 | 31 |
| CC38345 | 151 | 26 |
| CC38346 | 131 | 31 |
| CC38347 | 143 | 27 |
| CC38348 | 133 | 48 |
| CC38351 | 149 | 32 |
| CC38352 | 152 | 32 |
| CC38365 | 133 | 48 |
| CC38366 | 141 | 65 |
| CD38036 | 103 | 22 |
| CD38051 | 111 | 54 |
| CD38061 | 105 | 58 |
| CD38110 | 123 | 22 |
| CD38186 | 82 | 50 |
| CD38201 | 63 | 17 |
| CD38366 | 143 | 65 |
| CIC38005 | 73 | 23 |
| CIC38013 | 82 | 42 |
| CIC38060 | 92 | 63 |
| CIC38091 | 33 | 55 |
| CIC38175 | 33 | 39 |

| Pos.-Nr. / Pos. No. | Koordinaten / Coordinates X | Y |
|---|---|---|
| CIC38205 | 16 | 55 |
| CR38002 | 80 | 20 |
| CR38010 | 82 | 31 |
| CR38011 | 78 | 32 |
| CR38013 | 98 | 33 |
| CR38014 | 90 | 37 |
| CR38015 | 75 | 38 |
| CR38021 | 87 | 27 |
| CR38022 | 82 | 33 |
| CR38023 | 88 | 30 |
| CR38024 | 93 | 30 |
| CR38031 | 133 | 40 |
| CR38033 | 112 | 45 |
| CR38034 | 105 | 35 |
| CR38035 | 110 | 39 |
| CR38036 | 108 | 30 |
| CR38038 | 106 | 26 |
| CR38041 | 116 | 22 |
| CR38042 | 96 | 25 |
| CR38044 | 133 | 38 |
| CR38045 | 159 | 41 |
| CR38046 | 159 | 44 |
| CR38047 | 159 | 47 |
| CR38051 | 133 | 19 |
| CR38052 | 135 | 23 |
| CR38061 | 111 | 64 |
| CR38062 | 103 | 52 |
| CR38063 | 13 | 69 |
| CR38066 | 97 | 56 |
| CR38067 | 90 | 50 |
| CR38070 | 96 | 47 |
| CR38071 | 101 | 39 |
| CR38072 | 103 | 47 |
| CR38073 | 87 | 74 |
| CR38074 | 91 | 72 |
| CR38076 | 83 | 27 |
| CR38077 | 81 | 63 |
| CR38101 | 73 | 69 |
| CR38102 | 28 | 74 |

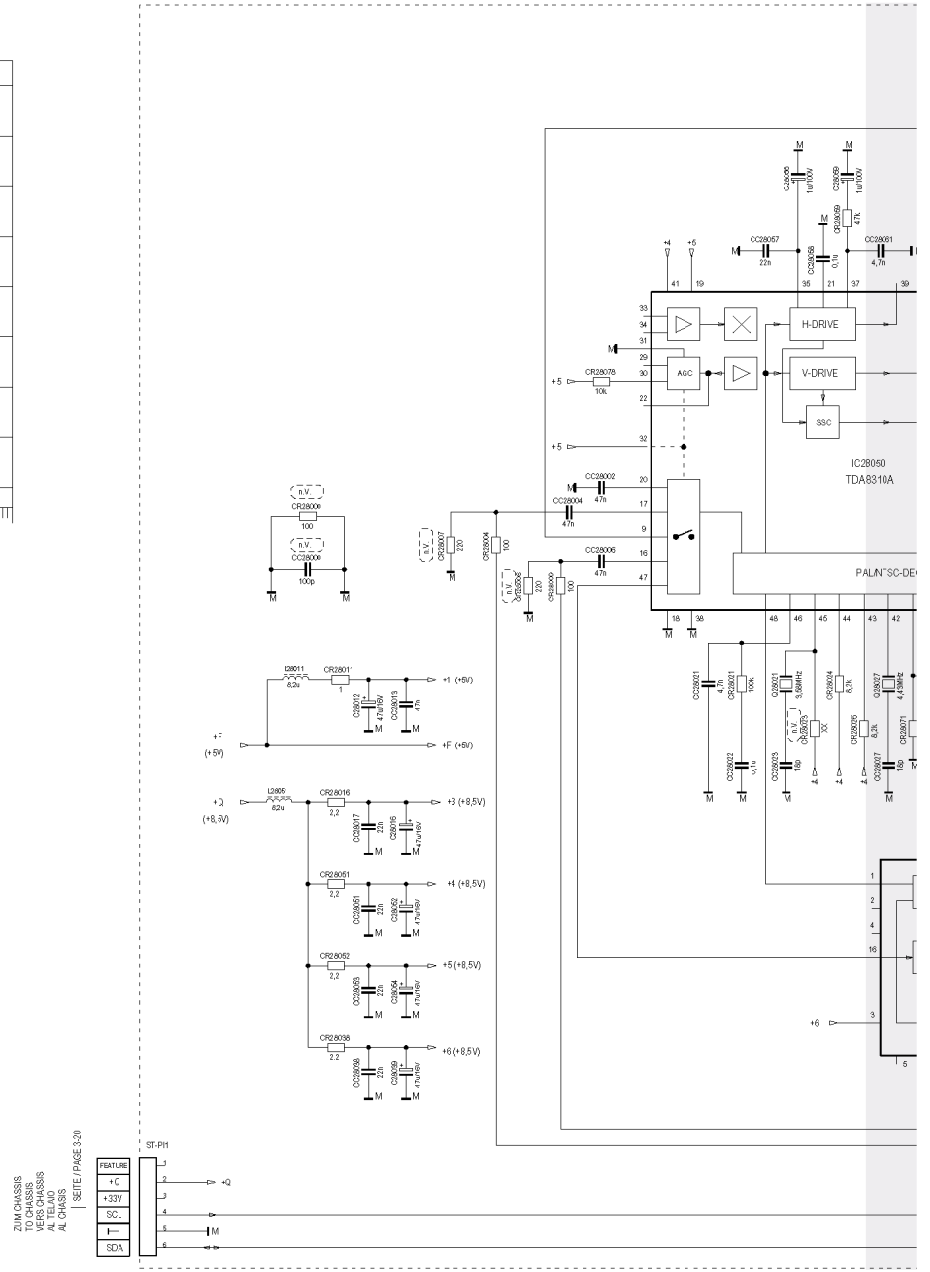
| Pos.-Nr. / Pos. No. | Koordinaten / Coordinates X | Y |
|---|---|---|
| CR38104 | 36 | 74 |
| CR38121 | 67 | 71 |
| CR38122 | 54 | 68 |
| CR38123 | 57 | 68 |
| CR38124 | 46 | 68 |
| CR38126 | 46 | 63 |
| CR38127 | 74 | 53 |
| CR38128 | 55 | 58 |
| CR38129 | 52 | 73 |
| CR38131 | 55 | 52 |
| CR38143 | 39 | 63 |
| CR38144 | 53 | 48 |
| CR38151 | 59 | 68 |
| CR38152 | 61 | 53 |
| CR38153 | 62 | 68 |
| CR38171 | 70 | 37 |
| CR38176 | 27 | 45 |
| CR38177 | 25 | 45 |
| CR38181 | 25 | 41 |
| CR38182 | 92 | 44 |
| CR38183 | 58 | 23 |
| CR38184 | 28 | 29 |
| CR38186 | 28 | 27 |
| CR38187 | 21 | 40 |
| CR38188 | 64 | 54 |
| CR38189 | 36 | 49 |
| CR38192 | 59 | 33 |
| CR38193 | 56 | 31 |
| CR38194 | 78 | 52 |
| CR38196 | 62 | 40 |
| CR38197 | 49 | 44 |
| CR38198 | 56 | 44 |
| CR38201 | 72 | 13 |
| CR38203 | 65 | 20 |
| CR38204 | 74 | 10 |
| CR38205 | 68 | 14 |
| CR38206 | 97 | 13 |
| CR38207 | 24 | 62 |
| CR38211 | 11 | 65 |

| Pos.-Nr. / Pos. No | Koordinaten / Coordinates X | Y |
|---|---|---|
| CR38301 | 152 | 51 |
| CR38303 | 150 | 51 |
| CR38336 | 132 | 68 |
| CR38345 | 161 | 28 |
| CR38350 | 161 | 25 |
| CR38351 | 161 | 20 |
| CR38352 | 148 | 16 |
| CR38353 | 156 | 16 |
| CR38354 | 147 | 50 |
| CR38355 | 152 | 56 |
| CR38359 | 131 | 25 |
| CR38365 | 150 | 65 |
| CR38366 | 147 | 65 |
| CT38020 | 96 | 37 |
| CT38021 | 84 | 23 |
| CT38040 | 106 | 22 |
| CT38045 | 116 | 28 |
| CT38060 | 104 | 65 |
| CT38065 | 96 | 51 |
| CT38070 | 100 | 43 |
| CT38125 | 50 | 63 |
| CT38130 | 50 | 57 |
| CT38135 | 50 | 52 |
| CT38140 | 44 | 58 |
| CT38150 | 61 | 59 |
| CT38185 | 22 | 36 |
| CT38190 | 47 | 33 |
| CT38194 | 75 | 56 |
| CT38195 | 51 | 40 |
| CT38196 | 57 | 40 |
| CT38201 | 80 | 11 |
| CT38206 | 89 | 13 |
| CT38365 | 156 | 68 |
| X01 | 122 | 15 |





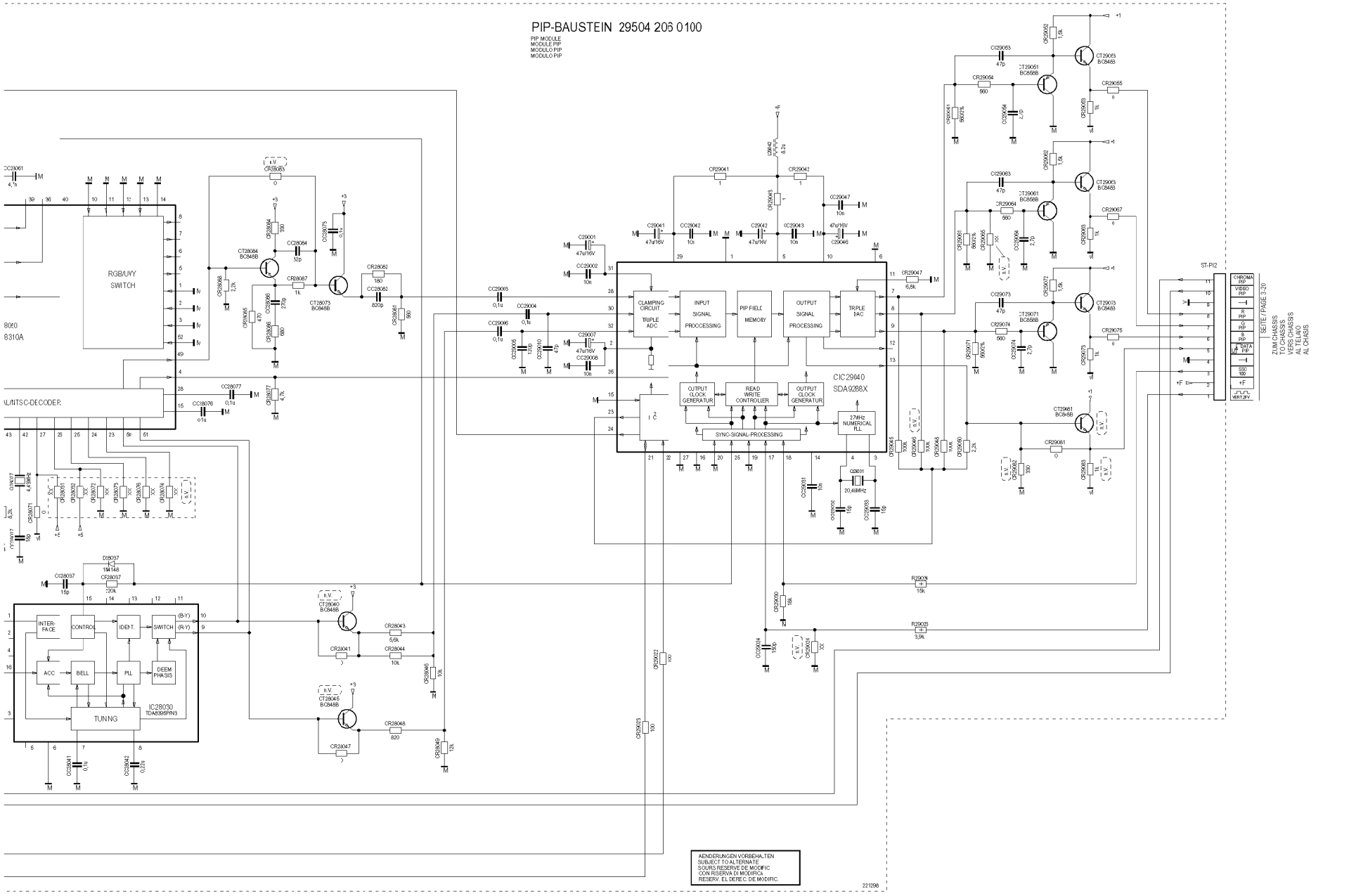
## PIP-Baustein / PIP Module



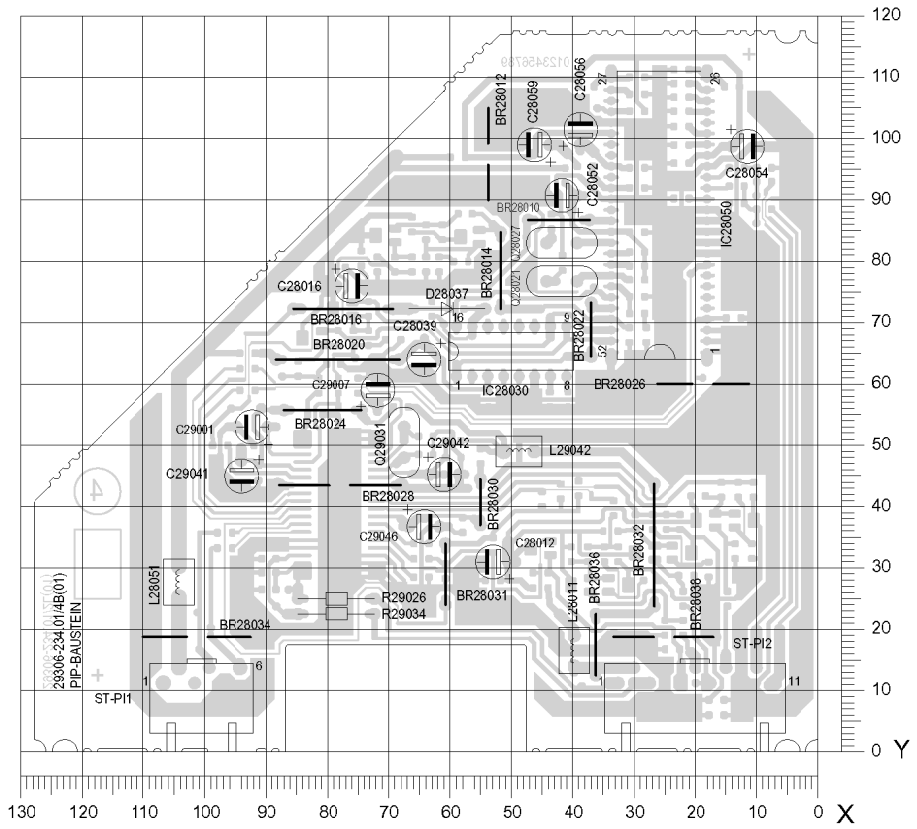
CUC 1832 / 1930 / 1931 Platinenabbildungen und Schaltpläne / Layout of the PCBs and Circuit Diagrams

# PIP-BAUSTEIN 29504 205 0100

PIP MODULE
MODULE PIP
MODULO PIP
MODULO PIP



**Bestückungsseite, Ansicht von oben / Component Side, Top View**



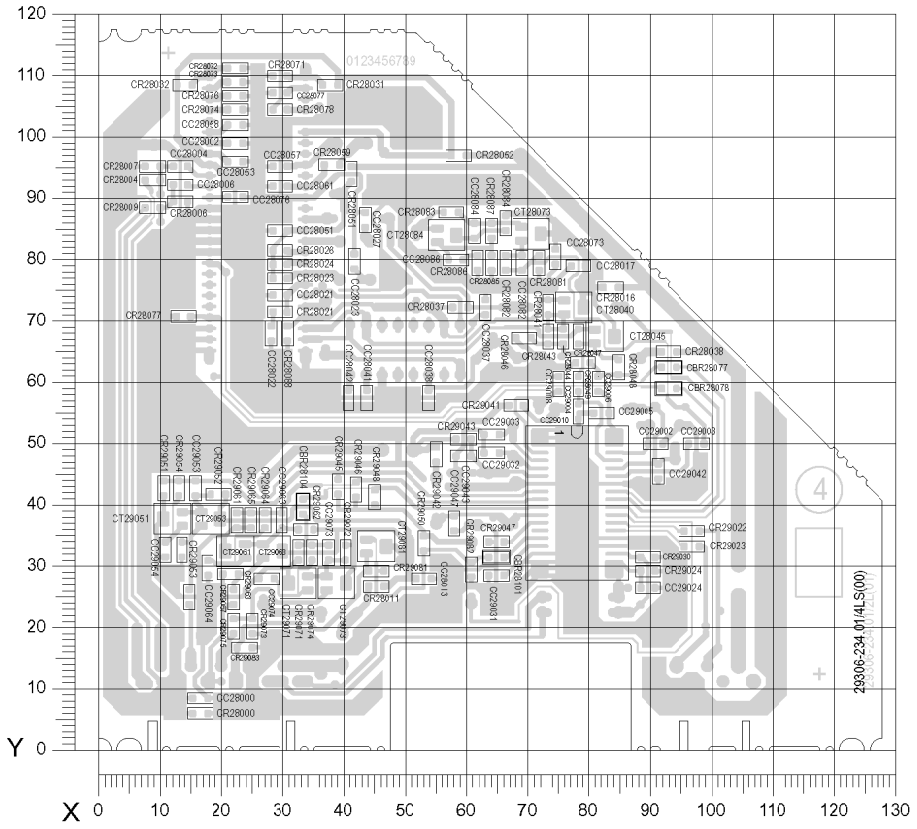

**Koordinaten für die Bauteile der Bestückungsseite (Oberseite)**
**Coordinates of the Components on the Components Side (Top Side)**

| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| BR28010 | 42 | 87 |
| BR28012 | 54 | 98 |
| BR28014 | 52 | 78 |
| BR28016 | 77 | 72 |
| BR28020 | 78 | 64 |
| BR28022 | 37 | 69 |
| BR28024 | 81 | 56 |
| BR28026 | 19 | 60 |
| BR28028 | 78 | 43 |
| BR28030 | 55 | 41 |
| BR28031 | 61 | 29 |
| BR28032 | 27 | 34 |
| BR28034 | 101 | 19 |
| BR28036 | 36 | 18 |
| BR28038 | 25 | 19 |
| C28012 | 53 | 31 |
| C28016 | 76 | 76 |
| C28039 | 64 | 64 |
| C28052 | 42 | 90 |
| C28054 | 11 | 99 |
| C28056 | 39 | 101 |
| C28059 | 46 | 99 |
| C29001 | 92 | 53 |
| C29007 | 72 | 59 |
| C29041 | 94 | 45 |
| C29042 | 61 | 46 |
| C29046 | 64 | 37 |
| D28037 | 61 | 72 |
| IC28030 | 50 | 65 |
| IC28050 | 26 | 88 |
| L28011 | 40 | 16 |
| L28051 | 104 | 28 |
| L29042 | 49 | 49 |
| Q28021 | 42 | 77 |
| Q28027 | 42 | 83 |
| Q29031 | 68 | 51 |
| R29026 | 78 | 25 |
| R29034 | 78 | 23 |
| ST-PI01 | 100 | 9 |
| ST-PI02 | 20 | 9 |





**Lötseite, Ansicht von unten / Solder Side, Bottom View**




**Koordinaten für die Bauteile der Lötseite (Unterseite)**
**Coordinates of the components on the Solder Side (Bottom Side)**

| Pos.-Nr./ Pos. No. | Koordinaten/ Coordinates X | Y |
|---|---|---|
| CBR26077 | 93 | 63 |
| CBR26078 | 93 | 59 |
| CBR26101 | 65 | 32 |
| CBR26104 | 33 | 40 |
| CC28000 | 16 | 9 |
| CC28002 | 22 | 99 |
| CC28004 | 13 | 95 |
| CC28006 | 13 | 92 |
| CC28013 | 53 | 28 |
| CC28017 | 78 | 79 |
| CC28021 | 30 | 74 |
| CC28022 | 28 | 68 |
| CC28023 | 42 | 80 |
| CC28027 | 43 | 86 |
| CC28037 | 63 | 72 |
| CC28038 | 54 | 58 |
| CC28041 | 44 | 58 |
| CC28042 | 41 | 58 |
| CC28051 | 30 | 85 |
| CC28053 | 22 | 96 |
| CC28057 | 30 | 95 |
| CC28058 | 22 | 102 |
| CC28061 | 30 | 92 |
| CC28073 | 74 | 81 |
| CC28076 | 22 | 90 |
| CC28077 | 30 | 107 |
| CC28082 | 69 | 80 |
| CC28084 | 61 | 85 |
| CC28086 | 53 | 80 |
| CC29002 | 91 | 50 |
| CC29003 | 93 | 50 |
| CC29004 | 73 | 60 |
| CC29005 | 82 | 55 |
| CC29006 | 81 | 60 |
| CC29008 | 75 | 60 |
| CC29010 | 73 | 55 |
| CC29024 | 93 | 27 |
| CC29031 | 65 | 28 |
| CC29032 | 64 | 48 |
| CC29033 | 64 | 52 |
| CC29042 | 91 | 46 |
| CC29043 | 59 | 48 |
| CC29044 | 53 | 37 |
| CC29055 | 13 | 43 |
| CC29056 | 11 | 33 |
| CC29065 | 33 | 38 |
| CC29066 | 13 | 30 |
| CC29073 | 33 | 32 |
| CC29074 | 27 | 28 |
| CC28000 | 13 | 6 |
| CR28004 | 9 | 93 |
| CR28006 | 13 | 90 |
| CR28007 | 9 | 95 |
| CR28009 | 9 | 89 |
| CR23011 | 45 | 27 |
| CR23016 | 64 | 76 |
| CR23021 | 30 | 72 |
| CR23023 | 30 | 77 |
| CR23024 | 30 | 79 |
| CR23026 | 30 | 81 |
| CR23031 | 38 | 108 |
| CR23032 | 14 | 108 |
| CR23037 | 59 | 72 |
| CR23038 | 98 | 65 |
| CR23041 | 73 | 72 |
| CR23043 | 73 | 68 |
| CR23044 | 76 | 68 |
| CR23046 | 69 | 67 |
| CR23047 | 78 | 68 |
| CR23048 | 85 | 63 |
| CR23049 | 79 | 63 |
| CR23051 | 41 | 94 |
| CR23052 | 59 | 97 |
| CR23059 | 38 | 96 |
| CR23071 | 30 | 110 |
| CR23072 | 22 | 111 |
| CR23073 | 22 | 109 |
| CR23074 | 22 | 105 |
| CR23076 | 22 | 107 |
| CR23077 | 14 | 71 |
| CR23078 | 30 | 105 |
| CR28031 | 72 | 80 |
| CR28032 | 66 | 80 |
| CR28033 | 58 | 88 |
| CR28034 | 66 | 86 |
| CR28035 | 64 | 80 |
| CR28036 | 62 | 80 |
| CR28037 | 64 | 85 |
| CR28038 | 31 | 68 |
| CR29022 | 97 | 36 |
| CR29023 | 97 | 33 |
| CR29024 | 90 | 29 |
| CR29030 | 90 | 32 |
| CR29041 | 68 | 56 |
| CR29042 | 55 | 48 |
| CR29043 | 59 | 51 |
| CR29045 | 39 | 43 |
| CR29046 | 42 | 43 |
| CR29047 | 65 | 34 |
| CR29048 | 45 | 41 |
| CR29050 | 53 | 34 |
| CR29051 | 10 | 43 |
| CR29052 | 20 | 42 |
| CR29053 | 14 | 33 |
| CR29054 | 13 | 43 |
| CR29055 | 15 | 25 |
| CR29061 | 23 | 38 |
| CR29062 | 34 | 36 |
| CR29063 | 22 | 29 |
| CR29064 | 27 | 38 |
| CR29065 | 25 | 38 |
| CR29067 | 22 | 25 |
| CR29071 | 33 | 32 |
| CR29072 | 40 | 32 |
| CR29073 | 25 | 20 |
| CR29074 | 35 | 32 |
| CR29075 | 22 | 20 |
| CR29081 | 45 | 29 |
| CR29082 | 67 | 30 |
| CR29083 | 24 | 17 |
| CT28040 | 78 | 72 |
| CT28045 | 83 | 68 |
| CT28073 | 71 | 84 |
| CT28084 | 57 | 84 |
| CT29051 | 12 | 38 |
| CT29053 | 18 | 38 |
| CT29061 | 22 | 33 |
| CT29063 | 28 | 33 |
| CT29071 | 33 | 27 |
| CT29073 | 39 | 27 |
| CT29081 | 45 | 33 |

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# Ersatzteilliste
# Spare Parts List

TV

## ATLANTA SE 7250 PIP/DOLBY
## ATLANTA SE 7250/8 DOLBY

**7 / 99**

MATERIAL-NR. / PART NO.: 92182 501 7500 BESTELL-NR. / ORDER NO.: G.CI 25-75 SCHWARZ/BLACK
VERSION NR./VERSION NO.: **VNM**

MATERIAL-NR. / PART NO.: 92182 502 7500 BESTELL-NR. / ORDER NO.: G.CI 73-75 SCHWARZ/BLACK
VERSION NR./VERSION NO.: **VNM**

| POS. NR. POS. NO. | ABB. FIG. | MATERIAL-NR. PART NUMBER | ANZ. QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| | | 92182 501 7500 | | SE 7250 PIP/DOLBY ATLANTA SCHWARZ | SE 7250 PIP/DOLBY ATLANTA BLACK |
| | | | | KEIN E-TEIL | NO SPARE PART |
| | | 92182 502 7500 | | SE 7250/8 DOLBY ATLANTA SCHWARZ | SE 7250/8 DOLBY ATLANTA BLACK |
| | | | | KEIN E-TEIL | NO SPARE PART |
| 0200.000 | | 29635 301 0101 | | GEH-VORDERTEIL DRUCK KPL | CABINET FRONT PART PRINT |
| 0250.000 | | 29501 731 0101 | | TASTENKNOPF NETZ | KEY KNOB POWER |
| 0252.000 | | 29303 390 4200 | | KOPFHOERERBUCHSE 3,5 O.SCHALTER | HEADPHONE SOCKET 3,5 W/O SWITCH |
| 0253.000 | | 29303 522 0600 | | S-VHS-BUCHSE O.SCHALTER | S-VHS-SOCKET W/O SWITCH |
| 0254.000 | | 29303 168 8100 | | CINCH-BUCHSE 3-FACH GE/WS/RT | CINCH SOCKET 3 FOLD YE/WH/RE |
| 0256.000 | | 29700 628 2001 | | ABDECKUNG BASIC 3 G.CI 25-75 | COVER BASIC 3 G.CI 25-75 |
| 0256.000 | | 29700 628 1401 | | ABDECKUNG BASIC 3 G.CI 73-75 | COVER BASIC 3 G.CI 73-75 |
| 0257.000 | | 29501 729 0101 | | KLAPPE DRUCK KPL | FLAP PRINT CPL |
| 0258.000 | | 27033 221 0100 | | DRUCKSCHNAEPPER | PRESSURE CATCH |
| 0259.000 | | 29638 023 0101 | | DAEMPFUNGSBLOCK | DAMPING BLOCK |
| 0260.000 | | 29638 023 1101 | | DAEMPFUNGSBLOCK | DAMPING BLOCK |
| 0261.000 | | 29636 458 0101 | | LS-GITTER LINKS M.STOFF KPL. | BOX GRILLE LEFT W.FABRIC CPL |
| 0262.000 | | 29636 459 0101 | | LS-GITTER RECHTS M.STOFF KPL. | BOX GRILLE RIGHT W.FABRIC CPL |
| 0264.000 | | 19126 040 9700 | 2 | LAUTSPRECHER KOMBI 4 OHM | LOUDSPEAKER COMBI 4 OHM |
| 0267.000 | | 29608 864 0102 | 4 | SOCKELEINLAGE | BASE INSERT |
| 0283.000 | | 29303 375 0301 | | BUEGELFEDER | WIRE SPRING |
| 0300.000 | | 29636 400 0101 | | GEH-RUECKTEIL OFB | REAR PANEL SURFACE TREATED |
| 0320.000 | | 29110 029 0501 | | TYPENAUFKLEBER G.CI 25-75 | TYPE LABEL SELF-ADH. G.CI 25-75 |
| 0320.000 | | 29110 030 0501 | | TYPENAUFKLEBER G.CI 73-75 | TYPE LABEL SELF-ADH. G.CI 73-75 |
| 0380.000 | | 29636 456 8701 | 4 | ABDECKUNG | COVER |
| 0700.000 | | 09246 135 7502 | | SPULE ENTMAGNETISIERUNG KPL. | DEGAUSSING COIL CPL |
| 1000.000 | ⚠ | 09621 113 0206 | 2 | SICHERUNGSHALTER | FUSE HOLDER |
| 1100.000 | | 83000 686 9500 | | BILDR.A68LBT696X99 | PICT.TUBE A68LBT696X99 |
| 1200.000 | ⚠ | 29201 360 1106 | | ANODENKAPPE M.HOCHSPANNUNGSKABEL | ANODE CAP W.HIGH VOLTAGE CABLE |
| 1300.000 | | 29501 082 8800 | | BEDIENPLATTE | CONTROL BOARD |
| | | | | KEIN E-TEIL | NO SPARE PART |
| 1310.000 | | 29703 357 1100 | | TASTSCHALTER PROGRAMM + | KEY SWITCH PROGRAMME + |
| 1320.000 | | 29703 357 1100 | | TASTSCHALTER PROGRAMM - | KEY SWITCH PROGRAMME - |
| 1330.000 | | 29703 357 1100 | | TASTSCHALTER LAUTSTAERKE + | KEY SWITCH VOLUME + |
| 1340.000 | | 29703 357 1100 | | TASTSCHALTER LAUTSTAERKE - | KEY SWITCH VOLUME - |
| 1350.000 | | 29501 671 0701 | | TASTEN-SATZ PROGR./LAUTSTAERKE | KEY SET PROGRAMME/VOLUME |
| 1900.000 | | 29305 165 8400 | | NETZSCHALTERPLATTE | POWER SWITCH BOARD |
| | | | | KEIN E-TEIL | NO SPARE PART |
| 2000.000 | ⚠ | 29703 291 7105 | | NETZSCHALTER ECO O.WISCHER | POWER SWITCH ECO W/O WIPER |
| 2100.000 | ⚠ | 82909 913 1600 | | NETZKABEL KPL MIT ENTSTOERDROSSEL | POWER CABLE WITH INTERFERENCE COIL |
| 2300.000 | | 29305 122 3000 | X | BILDROHRPLATTE | PICTURE TUBE BOARD |
| 2400.000 | | 29642 061 1201 | | FERNBEDIENUNG TP 910 C | REMOTE CONTROL TP 910 C |
| 2450.000 | ⚠ | 29607 307 0102 | 2 | SCHLAUFE | LOOP |
| 2650.000 | | 29210 703 0200 | | FOKUSLEITUNG | FOCUS CABLE |
| 2660.000 | ⚠ | 29201 361 0400 | | FOKUS U. UG2-REGLER | FOCUS AND UG2 CONTROLLER |
| | | | | KEIN E-TEIL | NO SPARE PART |
| | | 21825 941 0300 | | BEDIENUNGSANLEITUNG D G.CI 25-75 | OPERATING INSTRUCTIONS D G.CI 25-75 |
| | | 21825 941 0900 | | BEDIENUNGSANLEITUNG D G.CI 73-75 | OPERATING INSTRUCTIONS D G.CI 73-75 |
| | | 21825 941 0400 | | BEDIENUNGSANLEITUNG F/NL G.CI 25-75 | OPERATING INSTRUCTIONS F/NL G.CI 25-75 |

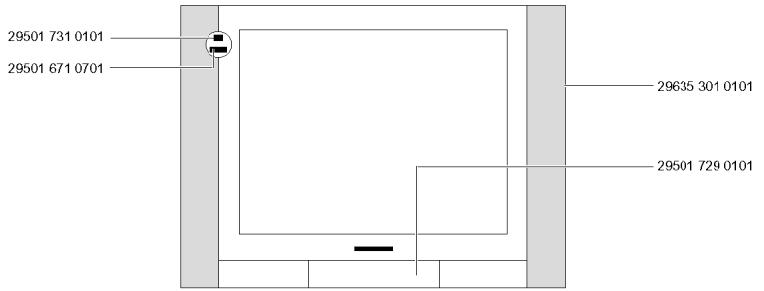




| POS. NR. POS. NO. | ABB. FIG. | MATERIAL-NR. PART NUMBER | ANZ. QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| | | 21825 941 1000 | | BEDIENUNGSANLEITUNG F/NL G.CI 73-75 | OPERATING INSTRUCTIONS F/NL G.CI 73-75 |
| | | 21825 941 0500 | | BEDIENUNGSANLEITUNG E/P G.CI 25-75 | OPERATING INSTRUCTIONS E/P G.CI 25-75 |
| | | 21825 941 1100 | | BEDIENUNGSANLEITUNG E/P G.CI 73-75 | OPERATING INSTRUCTIONS E/P G.CI 73-75 |
| | | 21825 941 0600 | | BEDIENUNGSANLEITUNG S/N G.CI 25-75 | OPERATING INSTRUCTIONS S/N G.CI 25-75 |
| | | 21825 941 1200 | | BEDIENUNGSANLEITUNG S/N G.CI 73-75 | OPERATING INSTRUCTIONS S/N G.CI 73-75 |
| | | 21825 941 0700 | | BEDIENUNGSANLEITUNG DK/FIN G.CI25-75 | OPERATING INSTRUCT. DK/FIN G.CI25-75 |
| | | 21825 941 1300 | | BEDIENUNGSANLEITUNG DK/FIN G.CI73-75 | OPERATING INSTRUCT. DK/FIN G.CI73-75 |
| | | 21825 941 0800 | | BEDIENUNGSANLEITUNG GB/I G.CI25-75 | OPERATING INSTRUCTIONS GB/I G.CI25-75 |
| | | 21825 941 1400 | | BEDIENUNGSANLEITUNG GB/I G.CI73-75 | OPERATING INSTRUCTIONS GB/I G.CI73-75 |
| | | 72010 024 9000 | | SERVICE MANUAL D/GB | SERVICE MANUAL D/GB |
| | | 72010 800 0000 | | SERVICE MANUAL SICHERHEIT | SERVICE MANUAL SECURITY |
| | | 29656 004 3400 | | MONTAGEZUBEHOER F.BILDROHR | MOUNTING ACCESSORIES F.CRT |
| | | | | KEIN E-TEIL | NO SPARE PART |
| | | 29704 007 0700 | X | CHASSIS-FS-STEREO G.CI 25-75 CUC1832 | CHASSIS TV STEREO G.CI 25-75 CUC 1832 |
| | | | | KEIN E-TEIL | NO SPARE PART |
| | | 29704 007 0800 | X | CHASSIS-FS-STEREO G.CI 73-75 CUC 1832 | CHASSIS TV STEREO G.CI 73-75 CUC 1832 |
| | | | | KEIN E-TEIL | NO SPARE PART |
| | | | | X = SIEHE GESONDERTE E-LISTE | X = SEE SEPARATE PARTS LIST |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| C 62001 ⚠ | 85117 930 4700 | FOKO MP3 0,47UF/20%/250VW |
| C 62002 ⚠ | 85117 930 4500 | FOKO MP3 0,33UF 20% 250VW |
| C 64001 ⚠ | 85022 000 6600 | FOKO 1500PF 20% 6000V |
| C 64002 ⚠ | 85022 000 6600 | FOKO 1500PF 20% 6000V |
| C 64006 | 85159 116 0900 | FOKO FKP1 180PF -5% 2000V |
| D 64001 | 83092 000 2100 | DIODE BAV 21 |
| D 64002 | 83092 000 2100 | DIODE BAV 21 |
| D 64003 | 83092 000 2100 | DIODE BAV 21 |
| D 64004 | 83092 000 2100 | DIODE BAV 21 |
| D 81501 | 83092 150 4500 | DIODE 1N4148 |
| D 85001 | 83099 783 7100 | LE-DIODE LU3371GK |
| FS 64001 | 29303 230 0200 | FUNKENSTECKE 1,6V SPARK GAP |
| GD 22003 | 83100 100 0800 | TRIAC BTB08-600CW |
| IC 84001 | 83053 675 3000 | IC TFM55300 STEHEND |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| L 62001 ⚠ | 29500 835 9700 | ENTSTOER-DR 2X22MH INTERFERENCE CHOKE |
| OK22005 ⚠ | 83060 003 2300 | OPTOKOPPLER K3053P |
| R 22001 ⚠ | 83112 000 1200 | PTC #3 DUO |
| R 22004 | 87650 443 2100 | MSW 0414 100 KOHM 2% |
| R 62002 ⚠ | 83110 050 1700 | NTC 4,7 OHM 30% |
| R 64003 | 87024 010 9700 | KMW 0411 10KOHM 10% |
| R 64006 | 29303 552 1100 | FOKUS-FUSSPUNKTREGLER BG1885-39065-5054 |
| S 62001 ⚠ | 83156 225 0300 | SI 5X20 T3,15A H 250V |
| T 44011 | 83032 055 4800 | TRANS BC548B |
| T 64016 | 83032 876 3900 | TRANS BC639 |
| T 81001 | 83032 958 7500 | TRANS BC875/877/879 |
| T 81002 | 83032 055 4800 | TRANS BC548B |
| TR 64001 | 29201 449 9700 | FOKUSSIERUNGSUEBERTRAGER FOCUS TRANSFORMER |




Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 72010 800 0000, sowie zusätzlich die evertuell abweichenden, landesspezifischen Vorschriften!

The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 72010 800 0000, as well as the respective national deviations.

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# Ersatzteilliste
# Spare Parts List

TV

## 7 / 99 SYDNEY SE 7230 DOLBY

MATERIAL-NR. / PART NO.: 92182 601 7500
BESTELL-NR. / ORDER NO.: G.CI 24-75 SCHWARZ/BLACK VERSION NR./VERSION NO.: **VNM**

| POS. NR. / POS. NO. | ABB. / FIG. | MATERIAL-NR. / PART NUMBER | ANZ. / QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| | | 92182 601 7500 | | SE 7230 DOLBY SYDNEY SCHWARZ<br>KEIN E-TEIL | SE 7230 DOLBY SYDNEY BLACK<br>NO SPARE PART |
| 0200.000 | | 29635 304 0101 | | GEH-VORDERTEIL DRUCK KPL | CABINET FRONT PART PRINT |
| 0250.000 | | 29501 731 0101 | | TASTENKNOPF NETZ | KEY KNOB POWER |
| 0252.000 | | 29303 390 4200 | | KOPFHOERERBUCHSE 3,5 O.SCHALTER | HEADPHONE SOCKET 3,5 W/O SWITCH |
| 0253.000 | | 29303 522 0600 | | S-VHS-BUCHSE O.SCHALTER | S-VHS-SOCKET W/O SWITCH |
| 0254.000 | | 29303 168 8100 | | CINCH-BUCHSE 3-FACH GE/WS/RT | CINCH SOCKET 3 FOLD YE/WH/RD |
| 0256.000 | | 29700 628 1401 | | ABDECKUNG BASIC 3 | COVER BASIC 3 |
| 0257.000 | | 29501 729 0201 | | KLAPPE DRUCK KPL | FLAP PRINT CPL |
| 0258.000 | | 27033 221 0100 | | DRUCKSCHNAEPPER | PRESSURE CATCH |
| 0259.000 | | 29638 023 0101 | | DAEMPFUNGSBLOCK | DAMPING BLOCK |
| 0260.000 | | 29638 023 1101 | | DAEMPFUNGSBLOCK | DAMPING BLOCK |
| 0261.000 | | 29636 458 0101 | | LS-GITTER LINKS M.STOFF KPL. | BOX GRILLE LEFT W.FABRIC CPL |
| 0262.000 | | 29636 459 0101 | | LS-GITTER RECHTS M.STOFF KPL. | BOX GRILLE RIGHT W.FABRIC CPL |
| 0264.000 | | 19126 040 9700 | 2 | LAUTSPRECHER KOMBI 4 OHM | LOUDSPEAKER COMBI 4 OHM |
| 0267.000 | | 29608 864 0102 | 4 | SOCKELEINLAGE | BASE INSERT |
| 0283.000 | | 29303 375 0301 | | BUEGELFEDER | WIRE SPRING |
| 0300.000 | | 29636 400 0101 | | GEH-RUECKTEIL OFB | REAR PANEL SURFACE TREATED |
| 0320.000 | | 29110 031 0501 | | TYPENAUFKLEBER | TYPE LABEL SELF-ADH. |
| 0380.000 | | 29636 456 8701 | 4 | ABDECKUNG | COVER |
| 0700.000 | | 09246 135 7502 | | SPULE ENTMAGNETISIERUNG KPL. | DEGAUSSING COIL CPL |
| 1000.000 | ⚠ | 09621 113 0206 | 2 | SICHERUNGSHALTER | FUSE HOLDER |
| 1100.000 | | 83000 686 9500 | | BILDR.A68LBT696X99 | PICT.TUBE A68LBT696X99 |
| 1200.000 | ⚠ | 29201 360 1106 | | ANODENKAPPE M.HOCHSPANNUNGSKABEL | ANODE CAP W.HIGH VOLTAGE CABLE |
| 1300.000 | | 29501 082 8800 | | BEDIENPLATTE<br>KEIN E-TEIL | CONTROL BOARD<br>NO SPARE PART |
| 1310.000 | | 29703 357 1100 | | TASTSCHALTER PROGRAMM + | KEY SWITCH PROGRAMME + |
| 1320.000 | | 29703 357 1100 | | TASTSCHALTER PROGRAMM - | KEY SWITCH PROGRAMME - |
| 1330.000 | | 29703 357 1100 | | TASTSCHALTER LAUTSTAERKE + | KEY SWITCH VOLUME + |
| 1340.000 | | 29703 357 1100 | | TASTSCHALTER LAUTSTAERKE - | KEY SWITCH VOLUME - |
| 1350.000 | | 29501 671 0701 | | TASTEN-SATZ PROG./LAUTST. | KEY SET PROGRAMME/VOLUME |
| 1900.000 | | 29305 165 8400 | | NETZSCHALTERPLATTE<br>KEIN E-TEIL | POWER SWITCH BOARD<br>NO SPARE PART |
| 2000.000 | ⚠ | 29703 291 7105 | | NETZSCHALTER ECO O.WISCHER | POWER SWITCH ECO W/O WIPER |
| 2100.000 | ⚠ | 82909 913 1600 | | NETZKABEL KPL MIT ENTSTOERDROSSEL | POWER CABLE WITH INTERFERENCE COIL |
| 2300.000 | | 29305 122 3000 | X | BILDROHRPLATTE | PICTURE TUBE BOARD |
| 2400.000 | | 29642 061 1201 | | FERNBEDIENUNG TP 910 C | REMOTE CONTROL TP 910 C |
| 2450.000 | ⚠ | 29607 307 0102 | 2 | SCHLAUFE | LOOP |
| 2650.000 | | 29210 703 0200 | | FOKUSLEITUNG | FOCUS CABLE |
| 2660.000 | ⚠ | 29201 361 0400 | | FOKUS U. UG2-REGLER | FOCUS AND UG2 CONTROLLER |
| | | | | KEIN E-TEIL | NO SPARE PART |
| | | 21826 941 0200 | | BEDIENUNGSANLEITUNG D | OPERATING INSTRUCTIONS D |
| | | 21826 941 0300 | | BEDIENUNGSANLEITUNG F/NL | OPERATING INSTRUCTIONS F/NL |
| | | 21826 941 0400 | | BEDIENUNGSANLEITUNG E/P | OPERATING INSTRUCTIONS E/P |
| | | 21826 941 0500 | | BEDIENUNGSANLEITUNG S/N | OPERATING INSTRUCTIONS S/N |
| | | 21826 941 0600 | | BEDIENUNGSANLEITUNG DK/FIN | OPERATING INSTRUCTIONS DK/FIN |
| | | 21826 941 0700 | | BEDIENUNGSANLEITUNG GB/I | OPERATING INSTRUCTIONS GB/I |
| | | 72010 024 9000 | | SERVICE MANUAL D/GB | SERVICE MANUAL D/GB |

Btx *32700# ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

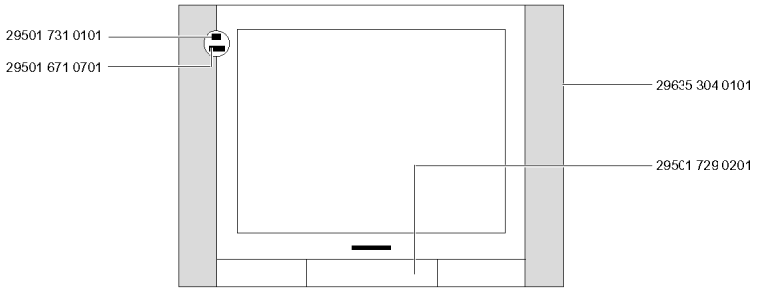




| POS. NR. / POS. NO. | ABB. / FIG. | MATERIAL-NR. / PART NUMBER | ANZ. / QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| | | 72010 800 0000 | | SERVICE MANUAL SICHERHEIT | SERVICE MANUAL SECURITY |
| | | 29656 004 3400 | | MONTAGEZUBEHOER F.BILDROHR<br>KEIN E-TEIL | MOUNTING ACCESSORIES F.CRT<br>NO SPARE PART |
| | | 29704 007 0900 | X | CHASSIS-FS-STEREO<br>CUC 1832<br>KEIN E-TEIL | CHASSIS TV STEREO<br>CUC 1832<br>NO SPARE PART |
| | | | | X = SIEHE GESONDERTE E-LISTE | X = SEE SEPARATE PARTS LIST |

| POS. NR. / POS. NO. | | MATERIAL-NR. / PART NUMBER | BEZEICHNUNG / DESCRIPTION |
|---|---|---|---|
| C 62001 | ⚠ | 85117 930 4700 | FOKO MP3 0,47UF 20% 250VW |
| C 62002 | ⚠ | 85117 930 4500 | FOKO MP3 0,33UF 20% 250VW |
| C 64001 | ⚠ | 85022 000 6600 | FOKO 1500PF 20% 6000V |
| C 64002 | ⚠ | 85022 000 6600 | FOKO 1500PF 20% 6000V |
| C 64006 | | 85159 116 0900 | FOKO FKP1 180PF -5% 2000V |
| D 64011 | | 83092 000 2100 | DIODE BAV 21 |
| D 64012 | | 83092 000 2100 | DIODE BAV 21 |
| D 64013 | | 83092 000 2100 | DIODE BAV 21 |
| D 64014 | | 83092 000 2100 | DIODE BAV 21 |
| D 81501 | | 83092 150 4500 | DIODE 1N4148 |
| D 85001 | | 83099 783 7100 | LE-DIODE LUB371GK |
| FS 64001 | | 29303 230 0200 | FUNKENSTECKE 1,6V<br>SPARK GAP |
| GD 22003 | | 83100 100 0800 | TRIAC BTB08-600CW |
| IC 84001 | | 83053 675 3000 | IC TFMS5300 STEHEND |

| POS. NR. / POS. NO. | | MATERIAL-NR. / PART NUMBER | BEZEICHNUNG / DESCRIPTION |
|---|---|---|---|
| L 62001 | ⚠ | 29500 835 9700 | ENTSTOER-DR 2X22MH<br>INTERFERENCE CHOKE |
| OK22005 | ⚠ | 83060 003 2300 | OPTOKOPPLER K3053P |
| R 22001 | ⚠ | 83112 000 1200 | PTC #3 DUO |
| R 22004 | | 87650 443 2100 | MSW 0414 100 KOHM 2% |
| R 62002 | ⚠ | 83110 050 1700 | NTC 4,7 OHM 30% |
| R 64003 | | 87024 010 9700 | KMW 0411 10KOHM 10% |
| R 64006 | | 29303 552 1100 | FOKUS-FUSSPUNKTREGLER<br>BG1885-39065.5054 |
| SI 62001 | ⚠ | 83156 225 0300 | SI 5X20 T3,15A H 250V |
| T 44011 | | 83032 055 4800 | TRANS BC548B |
| T 64016 | | 83032 876 3900 | TRANS BC639 |
| T 81001 | | 83032 958 7500 | TRANS BC875/877/879 |
| T 81002 | | 83032 055 4800 | TRANS BC548B |
| TR 64001 | | 29201 449 9700 | FOKUSSIERUNGSUEBERTRAGER<br>FOCUS TRANSFORMER |




Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 72010 800 0000, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!

The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 72010 800 0000, as well as the respective national deviations.

Btx *32700# ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

GRUNDIG

Ersatzteilliste
Spare Parts List

TV

# 7 / 99 ARGANTO 70 MW 70-510/8 DPL

MATERIAL-NR. / PART NO.: 92178 502 7500
BESTELL-NR. / ORDER NO.: G.CH 59-75 SCHWARZ/BLACK VERSION NR./VERSION NO.: **VNM**

| POS. NR. / POS. NO. | ABB. / FIG. | MATERIAL-NR. / PART NUMBER | ANZ. / QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| | | 92178 502 7500 | | MW 70-510/8 DPL ARGANTO 70 SCHWARZ<br>KEIN E-TEIL | MW 70-510/8 DPL ARGANTO 70 SCHWARZ<br>NO SPARE PART |
| 0200.000 | | 29635 271 0101 | | GEH-VORDERTEIL DRUCK KPL | CABINET FRONT PART PRINT |
| 0220.000 | | 29501 717 0100 | | LICHTLEITER | LIGHT GUIDE |
| 0230.000 | | 29638 023 1101 | | DAEMPFUNGSBLOCK | DAMPING BLOCK |
| 0250.000 | | 29636 327 0100 | | TASTENKNOPF NETZ | KEY HEAD NETZ |
| 0252.000 | | 29303 390 4200 | | KOPFHOERERBUCHSE 3,5 O.SCHALTER | HEADPHONE SOCKET 3,5 W/O SWITCH |
| 0253.000 | | 29303 522 0600 | | S-VHS-BUCHSE O.SCHALTER | S-VHS-SOCKET |
| 0254.000 | | 29303 168 5800 | | CINCH-BUCHSE 3-FACH | CINCH SOCKET 3 FOLD |
| 0256.000 | | 29700 628 1104 | | ABDECKUNG BASIC 3 | COVER BASIC 3 |
| 0257.000 | | 29636 364 0201 | | KLAPPE DRUCK KPL | FLAP PRINT CPL |
| 0258.000 | | 27033 221 0100 | | DRUCKSCHNAEPPER | PRESSURE CATCH |
| 0259.000 | | 29638 023 0101 | | DAEMPFUNGSBLOCK | DAMPING BLOCK |
| 0261.000 | | 29632 181 0103 | | GITTER KPL | GRID CPL |
| 0264.000 | | 19124 025 6100 | | LAUTSPRECHER | LOUDSEAKER |
| 0267.000 | | 29608 864 0102 | 4 | SOCKELEINLAGE | BASE INSERT |
| 0269.000 | | 29636 326 0102 | | IR-FENSTER | IR WINDOW |
| 0270.000 | | 29501 083 8000 | | KEYBOARD<br>KEIN E-TEIL | KEYBOARD<br>NO SPARE PART |
| 0280.000 | | 29638 145 0101 | | RAHMEN KPL | FRAME CPL |
| 0281.000 | | 29636 368 0300 | | BEDIENUNGSEINSATZ KPL<br>KEIN E-TEIL | CONTROL INSERT CPL<br>NO SPARE PART |
| 0282.000 | | 29636 357 0101 | | BEDIENUNGSEINSATZ DRUCK KPL. | CONTROL INSERT PRINT CPL |
| 0283.000 | | 29303 375 0101 | | DRAHTFEDER | WIRE SPRING |
| 0300.000 | | 29636 319 0301 | | GEH-RUECKTEIL KPL OFB<br>MIT SUBWOOFER | REAR PANEL CPL SURF.TREAT<br>WITH SUBWOOFER |
| 0320.000 | | 29618 758 0511 | | TYPENAUFKLEBER | TYPE LABEL SELF-ADH. |
| 0700.000 | ⚠ | 09246 151 7601 | | ENTMAGNETISIERUNGSSPULE M.HALTER | DEGAUSSING COIL W.HOLDER |
| 1000.000 | | 29635 248 0203 | 2 | BOX KPL | BOX CPL |
| 1000.000 | ⚠ | 09621 113 0206 | 2 | SICHERUNGSHALTER | FUSE HOLDER |
| 1001.000 | | 29638 137 0102 | 2 | ABDECKUNG OFB | COVER SURFACE TREATED |
| 1020.000 | | 29305 160 6000 | | BUCHSENPLATTE CLICK-FIT BASIC 3 | SOCKET BOARD CLICK-FIT BASIC 3 |
| 1021.000 | | 29303 425 2100 | | KURZSCHLUSS-STECKER | SHORT-CIRCUIT PLUG |
| 1022.000 | | 29303 425 2100 | | KURZSCHLUSS-STECKER | SHORT-CIRCUIT PLUG |
| 1023.000 | | 29303 395 1101 | | FEDERKLEMME 12-FACH | PUSH TERMINAL 12 FOLD |
| 1100.000 | ⚠ | 83000 662 0300 | | BILDR. W66ES202X44 PHILIPS | PICT. TUBE W66ESF202X44 PHILIPS |
| 1200.000 | ⚠ | 29201 360 1106 | | ANODENKAPPE M.HOCHSPANNUNGSKABEL | ANODE CAP W.HIGH VOLTAGE CABLE |
| 1300.000 | | 29305 160 3700 | | BAUSTEIN EURO-AV BASIC 3 | MODULE EURO-AV BASIC 3 |
| 1301.000 | | 29303 119 7100 | | EURO-AV BUCHSENLEISTE 21-POL. | EURO-AV SOCKET STRIP 21 P |
| 1310.000 | | 29703 357 1100 | | TASTSCHALTER PROGRAMM + | KEY SWITCH PROGRAMME + |
| 1320.000 | | 29703 357 1100 | | TASTSCHALTER PROGRAMM - | KEY SWITCH PROGRAMME - |
| 1330.000 | | 29703 357 1100 | | TASTSCHALTER LAUTSTAERKE + | KEY SWITCH VOLUME + |
| 1340.000 | | 29703 357 1100 | | TASTSCHALTER LAUTSTAERKE - | KEY SWITCH VOLUME - |
| 1350.000 | | 29636 328 0100 | | TASTEN-SATZ PROGRAMM/LAUTSTAERKE | KEYS SET PROGRAMME/VOLUME |
| 1900.000 | | 29305 165 8100 | | NETZSCHALTERPLATTE<br>KEIN E-TEIL | POWER SWITCH BOARD<br>NO SPARE PART |
| 2000.000 | ⚠ | 29703 291 7105 | | NETZSCHALTER ECO O.WISCHER | POWER SWITCH ECO W/O WIPER |
| 2100.000 | ⚠ | 82909 913 1600 | | NETZKABEL KPL MIT ENTSTOERDROSSEL | POWER CABLE WITH INTERFERENCE COIL |
| 2300.000 | | 29305 122 2600 | X | BILDROHRPLATTE BASIC 3 | PICTURE TUBE BOARD BASIC 3 |

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

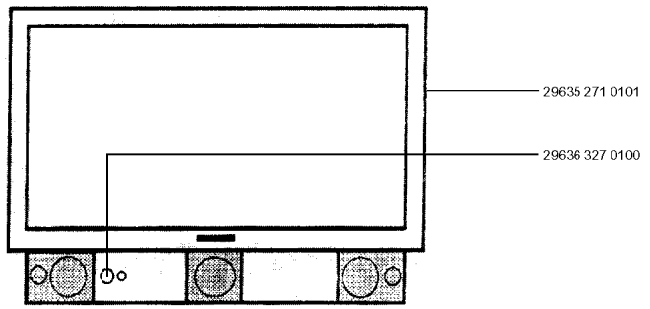




| POS. NR. / POS. NO. | ABB. / FIG. | MATERIAL-NR. / PART NUMBER | ANZ. / QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| 2400.000 | | 29642 061 0901 | | FERNBEDIENUNG TP 850 C | REMOTE CONTROL TP 850 C |
| 2450.000 | ⚠ | 29607 307 0102 | 2 | SCHLAUFE | LOOP |
| | | 21785 941 0100 | | BEDIENUNGSANLEITUNG | OPERATING INSTRUCTIONS |
| | | 72010 024 9000 | | SERVICE MANUAL | SERVICE MANUAL |
| | | 72010 800 0000 | | SERVICE MANUAL SICHERHEIT | SERVICE MANUAL SECURITY |
| | | 29656 004 3200 | | MONTAGEZUBEHOER F.BILDROHR<br>KEIN E-TEIL | MOUNTING ACCESSORIES F.CRT<br>NO SPARE PART |
| | | 29704 007 0200 | X | CHASSIS-FS-STEREO<br>CUC 1930<br>KEIN E-TEIL | CHASSIS TV STEREO<br>CUC 1930<br>NO SPARE PART |
| | | | | X = SIEHE GESONDERTE E-LISTE | X = SEE SEPARATE PARTS LIST |

| POS. NR. / POS. NO. | MATERIAL-NR. / PART NUMBER | BEZEICHNUNG / DESCRIPTION |
|---|---|---|
| C 62001 ⚠ | 85117 930 4700 | FOKO MP3 0,47UF 20% 250VW |
| C 62002 ⚠ | 85117 930 4500 | FOKO MP3 0,33UF 20% 250VW |
| CT 43331 | 83010 038 5800 | SMD TRANS BC858B |
| CT 43332 | 83010 038 5800 | SMD TRANS BC858B |
| CT 43333 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 43337 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 43339 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| D 43316 | 83092 150 4500 | DIODE 1N4148 |
| D 81501 | 83092 150 4500 | DIODE 1N4148 |
| D 85001 | 83099 783 7100 | LE-DIODE LUB371GK |
| GD 22003 | 83100 100 0800 | TRIAC BTB08-600CW |
| IC 84001 | 83053 675 3000 | IC TFMS5300 STEHEND |
| L 40901 | 09238 224 0600 | HF-DROSSEL/CHOKE COIL |

| POS. NR. / POS. NO. | MATERIAL-NR. / PART NUMBER | BEZEICHNUNG / DESCRIPTION |
|---|---|---|
| L 40903 | 09238 224 0600 | HF-DROSSEL/CHOKE COIL |
| L 40905 | 09238 224 0600 | HF-DROSSEL/CHOKE COIL |
| L 40907 | 09238 224 0600 | HF-DROSSEL/CHOKE COIL |
| L 40909 | 09238 224 0600 | HF-DROSSEL/CHOKE COIL |
| L 40916 | 09238 224 0600 | HF-DROSSEL/CHOKE COIL |
| L 62001 ⚠ | 29500 835 9700 | ENTSTOER-DR 2X22MH<br>CHOKE COIL |
| OK22005 ⚠ | 83060 003 2300 | OPTOKOPPLER K3053P |
| R 22001 ⚠ | 83112 000 1200 | PTC #3 DUO |
| R 22004 | 87650 443 2100 | MSW 0414 100 KOHM 2% |
| R 62002 ⚠ | 83110 050 1700 | NTC 4,7 OHM 30% |
| SI 62001 ⚠ | 83156 225 0300 | SI 5X20 T3,15A H 250V |
| T 44011 | 83032 055 4800 | TRANS BC548B |
| T 81001 | 83032 958 7500 | TRANS BC875/877/879 |
| T 81002 | 83032 055 4800 | TRANS BC548B |




Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 72010 800 0000, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!

⚠ (!)

The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 72010 800 0000, as well as the respective national deviations.

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

GRUNDIG

Ersatzteilliste
Spare Parts List

TV

# 8 / 99 ARGANTO 82 MW 82-510/8 DPL

MATERIAL-NR. / PART NO.: 92178 402 5200
BESTELL-NR. / ORDER NO.: G.CH 58-52 POLAR

| POS. NR. / POS. NO. | ABB. / FIG. | MATERIAL-NR. / PART NUMBER | ANZ. / QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| | | 92178 402 5200 | | MW 82-510/8 DPL ARGANTO 82 | MW 82-510/8 DPL ARGANTO 82 |
| | | | | KEIN E-TEIL | NO SPARE PART |
| 0200 000 | | 29635 339 0201 | | GEH-VORDERTEIL DRUCK KPL | CABINET FRONT PART PRINT |
| 0220 000 | | 29501 717 0100 | | LICHTLEITER | LIGHT GUIDE |
| 0250 000 | | 29636 327 0201 | | TASTENKNOPF NETZSCHALTER | KEY POWER SWITCH |
| 0253 000 | | 29303 522 0600 | | S-VHS-BUCHSE O.SCHALTER | S-VHS-SOCKET W/O SWITCH |
| 0254 000 | | 29303 168 5800 | | CINCH-BUCHSE 3-FACH FBAS/NF L,R | CINCH SOCKET 3 FOLD FBAS/AF L,R |
| 0255 000 | | 29303 390 4200 | | KOPFHOERERBUCHSE 3,5 O.SCHALTER | HEADPHONE SOCKET 3,5 W/O SWITCH |
| 0256 000 | | 29700 628 1104 | | ABDECKUNG BASIC 3 | COVER BASIC 3 |
| 0257 000 | | 29636 364 0301 | | KLAPPE DRUCK KPL | FLAP PRINT CPL |
| 0258 000 | | 27033 221 0100 | | DRUCKSCHNAEPPER | PRESSURE CATCH |
| 0259 000 | | 29638 023 1301 | | DAEMPFUNGSBLOCK | DAMPING BLOCK |
| 0260 000 | | 29303 375 0102 | | DRAHTFEDER | WIRE SPRING |
| 0261 000 | | 29632 181 0201 | | GITTER KPL. LAUTSPRECHER | GRILLE CPL LOUDSPEAKER |
| 0264 000 | | 19124 025 6100 | | LAUTSPRECHER | LOUDSEAKER |
| 0265 000 | ⚠ | 29201 476 0200 | | FOKUSLEITUNG M.TUELLE | FOCUSING CABLE |
| 0265 000 | ⚠ | 29201 476 0100 | 2 | FOKUSLEITUNG M.TUELLE | FOCUSING CABLE |
| 0266 000 | ⚠ | 29638 171 0101 | | FOLIE ISOLIERUNG BRANDSCHUTZFOLIE | FOIL INSULATION FIRE PROTECTION |
| 0267 000 | | 29608 864 0102 | 5 | SOCKELEINLAGE | BASE INSERT |
| 0269 000 | | 29636 326 0202 | | IR-FENSTER | IR WINDOW |
| 0269 000 | | 29607 309 0100 | 3 | HALTER ROTATIONSSPULE | HOLDER ROTARY COIL |
| 0274 000 | | 29636 320 0103 | 2 | ZWISCHENSTUECK | INTERMEDIATE PIECE |
| | | | | RUECKWANDBEFESTIGUNG | REAR PANEL FIXING |
| 0280 000 | | 29638 120 0701 | | RAHMEN KPL | FRAME CPL |
| 0281 000 | | 29636 357 0301 | | BEDIENUNGSEINSATZ DRUCK KPL. | CONTROL INSERT PRINT CPL |
| 0282 000 | | 29703 357 1100 | | TASTSCHALTER PROGRAMM + | KEY SWITCH PROGRAMME + |
| 0282 000 | | 29703 357 1100 | | TASTSCHALTER PROGRAMM - | KEY SWITCH PROGRAMME - |
| 0282 000 | | 29703 357 1100 | | TASTSCHALTER LAUTSTAERKE + | KEY SWITCH VOLUME + |
| 0282 000 | | 29703 357 1100 | | TASTSCHALTER LAUTSTAERKE - | KEY SWITCH VOLUME - |
| 0300 000 | | 29636 319 0601 | | GEH-RUECKTEIL KPL OFB | CABINET REAR PART CPL SUR |
| 0320 000 | | 29618 756 0509 | | TYPENAUFKLEBER | TYPE LABEL SELF-ADH. |
| 0600 000 | | 29635 248 0301 | 2 | BOX KPL. | BOX CPL |
| 0600 000 | | 29635 248 0301 | 2 | BOX KPL. | BOX CPL |
| 0600 000 | | 29638 137 0301 | 2 | ABDECKUNG OFB STATT BOX | COVER SURFACE TREATED INSTEAD BOX |
| 0700 000 | ⚠ | 09246 152 7506 | | ENTMAGNETISIERUNGSSPULE M.HALTER | DEGAUSSING COIL W.HOLDER |
| 0750 000 | ⚠ | 09246 153 7104 | | ROTATIONSSPULE | ROTATION COIL |
| 0800 000 | | 29305 160 6000 | | BUCHSENPLATTE CLICK-FIT BASIC | SOCKET BOARD CLICK-FIT BASIC |
| 0900 000 | | 29201 477 0100 | | FOKUS U.UG2-REGLER FMP-PR | FOCUS AND UG2-ADJUSTMENT |
| 1000 000 | ⚠ | 09621 113 0206 | 2 | SICHERUNGSHALTER SI62001 | FUSE HOLDER SI62001 |
| 1020 000 | | 29305 160 3700 | | BAUSTEIN EURO-AV BASIC 3 | MODULE EURO-AV BASIC 3 |
| 1021 000 | | 29303 119 7100 | | EURO-AV BUCHSENLEISTE 21-POL SW. | EURO-AV SOCKET STRIP 21 P BLACK |
| 1100 000 | | 83000 762 3100 | | BILDR.W76ESF231X44 **PHILIPS** | PICT.TUBE W76ESF231X44 **PHILIPS** |
| 1200 000 | ⚠ | 29201 360 1106 | | ANODENKAPPE M.HOCHSPANNUNGSKABEL | ANODE CAP W.HIGH VOLTAGE CABLE |
| | | 29501 083 8000 | | KEYBOARD | KEYBOARD |
| | | | | KEIN E-TEIL | NO SPARE PART |
| 1900 000 | | 29305 165 8100 | | NETZSCHALTERPLATTE | POWER SWITCH BOARD |
| 1950 000 | | 29636 328 0203 | | TASTENSATZ PROGRAMM/LAUTSTAERKE | KEY SET PROGRAMME/VOLUME |
| 1960 000 | ⚠ | 29703 291 7105 | | NETZSCHALTER ECO O.WISCHER | POWER SWITCH ECO W/O WIPER |
| 2100 000 | ⚠ | 82909 913 1600 | | NETZKABEL KPL MIT ENTSTOERDROSSEL | POWER CABLE WITH INTERFERENCE COIL |
| 2300 000 | ⚠ | 29305 122 2400 | X | BILDROHRPLATTE 16:9 (BASIC) | PICTURE TUBE BOARD 16:9 (BASIC) |
| 2400 000 | | 29642 061 0901 | | TELEPILOT TP 850 C | REMOTE CONTROL TP 350 C |

Btx *32700# ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

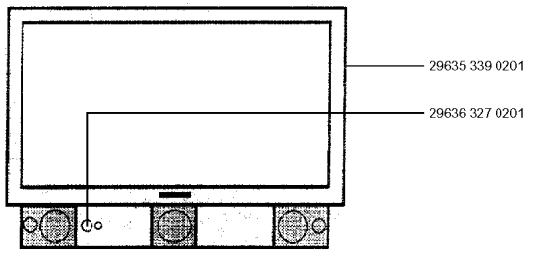




| POS. NR. / POS. NO. | ABB. / FIG. | MATERIAL-NR. / PART NUMBER | ANZ. / QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| | | 21784 941 0200 | | BEDIENUNGSANLEITUNG D | OPERATING INSTRUCTION D |
| | | 21784 941 0300 | | BEDIENUNGSANLEITUNG F/NL | OPERATING INSTRUCTION F/NL |
| | | 21784 941 0400 | | BEDIENUNGSANLEITUNG E/P | OPERATING INSTRUCTION E/P |
| | | 21784 941 0500 | | BEDIENUNGSANLEITUNG S/N | OPERATING INSTRUCTION S/N |
| | | 21784 941 0600 | | BEDIENUNGSANLEITUNG DK/FIN | OPERATING INSTRUCTION DK/FIN |
| | | 21784 941 0700 | | BEDIENUNGSANLEITUNGGB/I | OPERATING INSTRUCTION GB/I |
| | | 72010 024 9000 | | SERVICE MANUAL | SERVICE MANUAL |
| | | 72010 800 0000 | | SERVICE MANUAL SICHERHEIT | SERVICE MANUAL SECURITY |
| | | 29656 004 3100 | | MONTAGEZUBEHOER F.BILDROHR | MOUNTING ACCESSORIES F.CRT |
| | | | | KEIN E-TEIL | NO SPARE PART |
| | | 29704 007 0100 | X | CHASSIS-FS-STEREO | CHASSIS TV STEREO |
| | | | | CUC1931 | CUC 1931 |
| | | | | KEIN E-TEIL | NO SPARE PART |
| | | | | X = SIEHE GESONDERTE E-LISTE | X = SEE SEPARATE PARTS LIST |
| | | | | WW. = WAHLWEISE | WW. = OPTIONAL |

| POS. NR. / POS. NO. | MATERIAL-NR. / PART NUMBER | BEZEICHNUNG / DESCRIPTION |
|---|---|---|
| | 29305 160 6000 | BUCHSENPLATTE CLICK-FIT BASIC<br>SOCKET BOARD CLICK-FIT BASIC |
| L 40901 | 09238 224 0600 | HF-DRCSSEL |
| L 40903 | 09238 224 0600 | HF-DRCSSEL |
| L 40905 | 09238 224 0600 | HF-DRCSSEL |
| L 40907 | 09238 224 0600 | HF-DRCSSEL |
| L 40909 | 09238 224 0600 | HF-DRCSSEL |
| L 40916 | 09238 224 0600 | HF-DRCSSEL |
| | 29305 160 3700 | BAUSTEIN EURO-AV BASIC 3<br>MODULE EURO-AV BASIC 3 |
| D 43316 | 83092 150 4500 | DIODE 1N4148 |
| D 81501 | 83092 150 4500 | DIODE 1N4148 |
| R 43327 | 87000 112 4600 | KSW 0204 75 OHM 5% |
| T 44011 | 83032 055 4800 | TRANS BC548B |
| T 81001 | 83032 958 7500 | TRANS BC875/877/879 SIE |
| T 81002 | 83032 055 4800 | TRANS BC548B |
| | 29305 165 8100 | NETZSCHALTERPLATTE<br>POWER SWITCH BOARD |
| C 22001 ⚠ | 85637 324 2500 | FOKO KF #25 0,1UF 20% 250 |
| C 62001 ⚠ | 85117 930 4700 | FOKO MP3 0,47UF20%250VW W |

| POS. NR. / POS. NO. | MATERIAL-NR. / PART NUMBER | BEZEICHNUNG / DESCRIPTION |
|---|---|---|
| C 62002 ⚠ | 85117 930 4500 | FOKO MP3 0,33UF 20% 250VW |
| CT 43331 | 83010 038 5800 | SMD TRANS EC858B |
| CT 43332 | 83010 038 5800 | SMD TRANS EC858B |
| D 85001 | 83099 783 7100 | LE-DIODE LUB371CK SIE/ LT |
| GD 22003 | 83100 100 0800 | TRIAC BTB08-600CW |
| L 62001 ⚠ | 29500 835 9700 | ENTSTOER-DR 2X22MH |
| OK22005 ⚠ | 83060 003 2300 | OPTOKOPPLER K3053P |
| R 22001 ⚠ | 83112 000 1200 | PTC #3 DUO |
| R 62002 ⚠ | 83110 050 1700 | NTC 4,7 OHM 30% |
| SI 62001 ⚠ | 83156 225 0300 | SI 5X20 T3,15A H 250V |
| | 29501 083 8000 | KEYBOARD |
| C 84002 | 86682 030 2300 | ABBLOCK-C 0,1 UF-GR 25V |
| CT 43333 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 43337 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 43339 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| IC 84001 | 83053 675 3000 | IC TFMS5300 STEHEND/ TSOP |




Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 72010 800 0000, sowie zusätzlich die eventuell abweichenden, landesspezifischer Vorschriften!

The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 72010 800 0000, as well as the respective national deviations.

Btx *32700# ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

GRUNDIG

# Ersatzteilliste
# Spare Parts List

TV

## 8 / 99

## ARGANTO 82 MW 82-510/8 DPL

ERSETZT AUSGABE 3/99
SUBSTITUTE EDITION 3/99

MATERIAL-NR. / PART NO.: 92178 402 7500
BESTELL-NR. / ORDER NO.: G.CH 58-75 SCHWARZ/BLACK

| POS. NR. POS. NO. | ABB. FIG. | MATERIAL-NR. PART NUMBER | ANZ. QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| | | 92178 402 7500 | | MW 82-510/8 DPL ARGANTO 82<br>KEIN E-TEIL | MW 82-510/8 DPL ARGANTO 82<br>NO SPARE PART |
| 0200 000 | | 29635 339 0101 | | GEH-VORDERTEIL DRUCK KPL | CABINET FRONT PART PRINT |
| 0220 000 | | 29501 717 0100 | | LICHTLEITER | LIGHT GUIDE |
| 0250 000 | | 29636 327 0100 | | TASTENKNOPF NETZSCHALTER | KEY HEAD POWER SWITCH |
| 0253 000 | | 29303 522 0600 | | S-VHS-BUCHSE O.SCHALTER | S-VHS-SOCKET W/O SWITCH |
| 0254 000 | | 29303 168 5800 | | CINCH-BUCHSE 3-FACH FBAS/NF/L,R | CINCH SOCKET 3 FOLD FBAS/AE L,R |
| 0255 000 | | 29303 390 4200 | | KOPFHOERERBUCHSE 3 5 O.SCHALTER | HEADPHONE SOCKET 3,5 W/O SWITCH |
| 0256 000 | | 29700 628 1104 | | ABDECKUNG BASIC 3 | COVER BASIC 3 |
| 0257 000 | | 29636 364 0100 | | KLAPPE DRUCK KPL | FLAP PRINT CPL |
| 0258 000 | | 27033 221 0100 | | DRUCKSCHNAEPPER | PRESSURE CATCH |
| 0259 000 | | 29638 023 1301 | | DAEMPFUNGSBLOCK | DAMPING BLOCK |
| 0260 000 | | 29303 375 0102 | | DRAHTFEDER | WIRE SPRING |
| 0261 000 | | 29632 181 0100 | | GITTER KPL. LAUTSPRECHER | GRID CPL LOUDSPEAKER |
| 0264 000 | | 19124 025 6100 | | LAUTSPRECHER | LOUDSEAKER |
| 0264 000 | | 29201 476 0200 | | FOKUSLEITUNG M.TUELLE | FOCUSING CABLE |
| 0264 000 | | 29201 476 0100 | 2 | FOKUSLEITUNG M.TUELLE | FOCUSING CABLE |
| 0266 000 | | 29638 171 0101 | | FOLIE ISOLIERUNG BRANDSCHUTZ | FOIL INSULATION FIRE PROTECTION |
| 0267 000 | | 29608 864 0102 | 5 | SOCKELEINLAGE | BASE INSERT |
| 0269 000 | | 29607 309 0100 | 3 | HALTER ROTATIONSSPULE | HOLDER COIL ROTARY COIL |
| 0269 000 | | 29636 326 0102 | | IR-FENSTER | IR WINDOW |
| 0274 000 | | 29636 320 0102 | 2 | ZWISCHENSTUECK<br>RUECKWANDBEFESTIGUNG | INTERMEDIATE PIECE<br>REAR PANEL FIXING |
| 0280 000 | | 29638 120 0100 | | RAHMEN KPL | FRAME CPL |
| 0281 000 | | 29636 357 0200 | | BEDIENUNGSEINSATZ DRUCK KPL. | CONTROL INSERT PRINT CP. |
| 0282 000 | | 29703 357 1100 | | TASTSCHALTER PROGRAMM + | KEY SWITCH PROGRAMME + |
| 0282 000 | | 29703 357 1100 | | TASTSCHALTER PROGRAMM - | KEY SWITCH PROGRAMME - |
| 0282 000 | | 29703 357 1100 | | TASTSCHALTER LAUTSTAERKE + | KEY SWITCH VOLUME + |
| 0282 000 | | 29703 357 1100 | | TASTSCHALTER LAUTSTAERKE - | KEY SWITCH VOLUME - |
| 0300 000 | | 29636 319 0100 | | GEH-RUECKTEIL KPL OFB | REAR PANEL CPL SURFACE TREATED |
| 0320 000 | | 29618 756 0509 | | TYPENAUFKLEBER | TYPE LABEL SELF-ADH |
| WW. | | 29618 793 6302 | | TYPENAUFKLEBER | TYPE LABEL SELF-ADH |
| 0600 000 | | 29635 248 0203 | 2 | BOX KPL | BOX CPL |
| 0600 000 | | 29635 248 0203 | 2 | BOX KPL | BOX CPL |
| 0600 000 | | 29638 137 0102 | 2 | ABDECKUNG STATT BOX | COVER INSTEAD BOX |
| 0700 000 | ⚠ | 09246 152 7506 | | ENTMAGNETISIERUNGSSPULE M.HALTER | DEGAUSSING COIL W.HOLDER |
| 0750 000 | ⚠ | 09246 153 7104 | | ROTATIONSSPULE | ROTATION COIL |
| 0800 000 | | 29305 160 6000 | | BUCHSENPLATTE CLICK-FIT BASIC | SOCKET BOARD CLICK-FIT BASIC |
| 0900 000 | | 29201 477 0100 | | FOKUS U.UG2-REGLER FMP-PR | FOCUS AND UG2-ADJUSTMENT |
| 1000 000 | ⚠ | 09621 113 0206 | 2 | SICHERUNGSHALTER SI62001 | FUSE HOLDER SI62001 |
| 1020 000 | | 29305 160 3700 | | BAUSTEIN EURO-AV BASIC 3 | MODULE EURO-AV BASIC 3 |
| 1021 000 | | 29303 119 7100 | | EURO-AV BUCHSENLEISTE 21-POL SW. | EURO-AV SOCKET STR P 21 P BLACK |
| 1100 000 | | 83000 762 3100 | | BILDR.W76ESF231X44 **PHILIPS** | PICT.TUBE W76ESF231X44 **PHILIPS** |
| 1200 000 | ⚠ | 29201 360 1100 | | ANODENKAPPE M.HOCHSPANNUNGSKABEL | ANODE CAP W.HIGH VOLTAGE CABLE |
| | | 29501 083 8000 | | KEYBOARD<br>KEIN E-TEIL | KEYBOARD<br>NO SPARE PART |
| 1900 000 | | 29305 165 8100 | | NETZSCHALTERPLATTE | POWER SWITCH BOARD |
| 1950 000 | | 29636 328 0100 | | TASTEN-SATZ PROGRAMM/LAUTSTAERKE | KEYS SET PROGRAMME/VOLUME |
| 1960 000 | ⚠ | 29703 291 7105 | | NETZSCHALTER ECO O.WISCHER | POWER SWITCH ECO W/O WIPER |
| 2100 000 | ⚠ | 82909 913 1600 | | NETZKABEL KPL MIT ENTSTOERDROSSEL | POWER CABLE WITH INTERFERENCE COIL |
| 2300 000 | ⚠ | 29305 122 2400 | X | BILDROHRPLATTE 16:9 (BASIC) | PICTURE TUBE BOARD 16:9 (BASIC) |
| 2400 000 | | 29642 061 0901 | | TELEPILOT TP 850 C | REMOTE CONTROL TP 350 C |

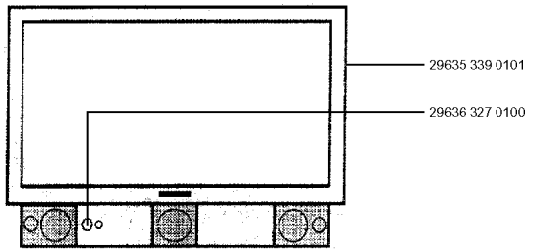




| POS. NR. POS. NO. | ABB. FIG. | MATERIAL-NR. PART NUMBER | ANZ. QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| | | 21784 941 0200 | | BEDIENUNGSANLEITUNG D | OPERATING INSTRUCTION D |
| | | 21784 941 0300 | | BEDIENUNGSANLEITUNG F/NL | OPERATING INSTRUCTION F/NL |
| | | 21784 941 0400 | | BEDIENUNGSANLEITUNG E/P | OPERATING INSTRUCTION E/P |
| | | 21784 941 0500 | | BEDIENUNGSANLEITUNG S/N | OPERATING INSTRUCTION S/N |
| | | 21784 941 0600 | | BEDIENUNGSANLEITUNG DK/FIN | OPERATING INSTRUCTION DK/FIN |
| | | 21784 941 0700 | | BEDIENUNGSANLEITUNG GB/I | OPERATING INSTRUCTION GE/I |
| | | 72010 024 9000 | | SERVICE MANUAL | SERVICE MANUAL |
| | | 72010 800 0000 | | SERVICE MANUAL SICHERHEIT | SERVICE MANUAL SECURITY |
| | | 29656 004 3100 | | MONTAGEZUBEHOER F.BILDROHR<br>KEIN E-TEIL | MOUNTING ACCESSORIES F.CRT<br>NO SPARE PART |
| | | 29704 007 0100 | X | CHASSIS-FS-STEREO<br>CUC1931<br>KEIN E-TEIL | CHASSIS TV STEREO<br>CUC 1931<br>NO SPARE PART |
| | | | | X = SIEHE GESONDERTE E-LISTE<br>WW. = WAHLWEISE | X = SEE SEPARATE PARTS LIST<br>WW. = OPTIONAL |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| | 29305 160 6000 | BUCHSENPLATTE CLICK-FIT BASIC<br>SOCKET BOARD CLICK-FIT BASIC |
| L 40901 | 09238 224 0600 | HF-DRCSSEL |
| L 40903 | 09238 224 0600 | HF-DRCSSEL |
| L 40905 | 09238 224 0600 | HF-DRCSSEL |
| L 40907 | 09238 224 0600 | HF-DRCSSEL |
| L 40909 | 09238 224 0600 | HF-DRCSSEL |
| L 40916 | 09238 224 0600 | HF-DRCSSEL |
| | 29305 160 3700 | BAUSTEIN EURO-AV BASIC 3<br>MODULE EURO-AV BASIC 3 |
| D 43316 | 83092 150 4500 | DIODE 1N4148 |
| D 81501 | 83092 150 4500 | DIODE 1N4148 |
| R 43327 | 87000 112 4600 | KSW 0204 75 OHM 5% |
| T 44011 | 83032 055 4800 | TRANS BC 548C |
| T 81001 | 83032 958 7500 | TRANS BC875/877/879 SIE |
| T 81002 | 83032 055 4800 | TRANS BC548B |
| | 29305 165 8100 | NETZSCHALTERPLATTE<br>POWER SWITCH BOARD |
| C 22001 ⚠ | 85637 324 2500 | FOKO KF #25 0,1UF 20% 250 |
| C 62001 ⚠ | 85117 930 4700 | FOKO MP3 0,47UF20%250VW W |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| C 62002 ⚠ | 85117 930 4500 | FOKO MP3 0,33UF 20% 250VW |
| CT 43331 | 83010 038 5800 | SMD TRANS EC858B |
| CT 43332 | 83010 038 5800 | SMD TRANS EC858B |
| D 85001 | 83099 783 7100 | LE-DIODE LUB371CK SIE |
| GD 22003 | 83100 100 0800 | TRIAC BTB08-600CW |
| L 62001 ⚠ | 29500 835 9700 | ENTSTOER-DR 2X22MH |
| OK 22C05 ⚠ | 83060 003 2300 | OPTOKOPPLER K3053P |
| R 22001 ⚠ | 83112 000 1200 | PTC #3 DUO |
| R 62002 ⚠ | 83110 050 1700 | NTC 4,7 OHM 30% |
| SI 62001 ⚠ | 83156 225 0300 | SI 5X20 T3,15A H 250V |
| | 29501 083 8000 | KEYBOARD |
| C 84002 | 86682 030 2300 | ABBLOCK-C 0,1UF 25V |
| CT 43333 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 43337 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 43339 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| IC 84001 | 83053 675 3000 | IC TFMS5300 STEHEND/ TSOP |




Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 72010 800 0000, sowie zusätzlich die eventuell abweichenden, landesspezifischer Vorschriften!

The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 72010 800 0000, as well as the respective national deviations.

GRUNDIG

Ersatzteilliste
Spare Parts List

TV

# 7 / 99

## CHASSIS-FS-STEREO CUC 1832 BASIC 3/4:3
## CHASSIS TV STEREO CUC 1832 BASIC 3/4:3

MATERIAL-NR. / PART NO.: 29704 007 0700/0800/0900

| POS. NR. POS. NO. | ABB. FIG. | MATERIAL-NR. PART NUMBER | ANZ. QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| | | 29704 007 0700 | | CHASSIS-FS-STEREO<br>CUC1832 BASIC 3/4:3<br>KEIN E-TEIL | CHASSIS TV STEREO<br>CUC1832 BASIC 3/4:3<br>NO SPARE PART |
| | | 29704 007 0800 | | CHASSIS-FS-STEREO<br>CUC1832 BASIC 3/4:3<br>KEIN E-TEIL | CHASSIS TV STEREO<br>CUC1832 BASIC 3/4:3<br>NO SPARE PART |
| | | 29704 007 0900 | | CHASSIS-FS-STEREO<br>CUC1832 BASIC 3/4:3<br>KEIN E-TEIL | CHASSIS TV STEREO<br>CUC1832 BASIC 3/4:3<br>NO SPARE PART |
| 0100.000 | | 29504 262 0100 | X | BAUSTEIN SIGNAL / ZF+TUNER 0800 | MODULE SIGNAL / IF+TUNER 0800 |
| 0100.000 | | 29504 202 0100 | X | BAUSTEIN SIGNAL / ZF+TUNER 0700/0900 | MODULE SIGNAL / IF+TUNER 0700/0900 |
| WW. | | 29504 212 0200 | X | BAUSTEIN SIGNAL MIT TUNER 0700 | MODULE SIGNAL W.TUNER 0700 |
| 0255.000 | | 29303 119 6600 | | EURO-AV BUCHSENLEISTE 21-POL. SW | EURO-AV SOCKET STR P 21 P BLACK |
| 0256.000 | | 29303 119 6800 | | EURO-AV BUCHSENLEISTE 21-POL. OR | EURO-AV SOCKET STR P 21 P ORANGE |
| 0264.000 | | 29210 703 0200 | | FOKUSLEITUNG | FOKUSLEITUNG |
| 0267.000 | | 29700 632 1101 | | HALTER BAUSTEIN | HOLDER MODULE |
| 0268.000 | | 29700 632 1201 | | HALTER BAUSTEIN | HOLDER MODULE |
| 0269.000 | | 29700 633 0100 | | HALTER KABEL | HOLDER CABLE |
| 0300.000 | | 29504 203 0400 | X | BAUSTEIN PROZESSOR M.MEGATEXT | MODULE PROCESSOR W.MEGATEXT |
| 0400.000 | | 29504 209 0200 | X | FEATURE-BOX BASIC 3 | FEATURE BOX BASIC 3 |
| 0450.000 | | 29304 050 8200 | | NETZTEIL STAND BY | POWER SUPPLY STAND BY |
| 0500.000 | | 29504 204 0100 | X | BAUSTEIN NF-VIRTUAL DOLBY | MODULE AF-VIRTUAL DOLBY |
| 0500.000 | | 29504 204 0400 | X | BAUSTEIN NF-VIRTUAL DOLBY MULTI | MODULE AF-VIRTUAL DOLBY MULTI |
| WW. | | 29504 204 0500 | X | BAUSTEIN NF-VIRTUAL DOLBY | MODULE AF-VIRTUAL DOLBY |
| 0900.000 | | 29504 206 0100 | X | BAUSTEIN PIP BASIC 3 0700 | MODULE PIP BASIC 3 0700 |
| 1310.000 | | 29305 025 4200 | | DYN.FOKUSSIERUNGSPLATTE BAS C 3 | DYN.FOCUSING BOARD BAS C 3 |
| 2200.000 | ⚠ | 29303 399 5100 | | NETZ EINBAUGERÄTESTECKER | APPLIANCE COUPLER W.CABLE |
| 2410.000 | | 29303 153 0100 | 2 | MONTAGECLIP T53001/T60006 | MOUNTING CLIP T5300?/T60006 |
| 2420.000 | | 29303 153 1200 | 3 | MONTAGECLIP D53071/53072/60006 | MOUNTING CLIP D53071/53072/60006 |
| 2425.000 | | 29303 153 1208 | 10 | MONTAGECLIP D61016/61026/61036/<br>T50028/50029/IC50010/61001/6?006/61030/<br>61040 | MOUNTING CLIP D61016/61026/61036/<br>T50028/50029/IC50010/61001/3?006/61030/<br>61040 |
| 2430.000 | | 29303 153 1605 | | MONTAGECLIP T52003 | MOUNTING CLIP T52003 |
| 2470.000 | | 29303 156 1800 | 2 | FOLIE WAERMELEITEND D60006/T60006 | FOIL HEAT CONDUCTING D60006/T60006 |
| 2480.000 | | 29303 156 2000 | 11 | FOLIE WAERMELEITEND D61016/61026/<br>61036/T50028/50029/52003/IC50010/61001/<br>61006/61030/6?040 | FOIL HEAT CONDUCTING D61016/61026/<br>61036/T50028/50029/52003/IC50010/61001/<br>61006/61030/61040 |
| 2490.000 | | 29303 156 2100 | 2 | FOLIE WAERMELEITEND D53071/53072 | FOIL HEAT CONDUCTING D53071/53072 |
| 2495.000 | | 29303 156 2300 | | FOLIE WAERMELEITEND T53001 | FOIL HEAT CONDUCTING T53001 |
| | | | | X = SIEHE GESONDERTE E-LISTE<br>WW. = WAHLWEISE | X = SEE SEPARATE PARTS LIST<br>WW. = OPTIONAL |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| C 50012 | 84529 961 4700 | ELKO 1000UF 20% 25V |
| C 50026 | 84529 961 4700 | ELKO 1000UF 20% 25V |
| C 53012 | 85159 116 0200 | FOKO FKP1 142PF 2,5% 2000V |
| C 53071 | 85159 117 1900 | FOKO FKP1 0,012UF 3,5% 2000V |
| C 54021 | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 60001 | 86500 811 2500 | HV-KERKO 1000PF 20% 1KV |
| C 60006 | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| C 60009 | 85159 110 4000 | FOKO FKP1 220PF 10% 1600V |
| C 60012 | 86500 811 1100 | HV-KERKO 270PF 20% 2KV |
| C 60023 | 86500 811 2500 | HV-KERKO 1000PF 20% 1KV |
| C 60024 | 86500 811 2500 | HV-KERKO 1000PF 20% 1KV |
| C 60026 | 86500 811 2500 | HV-KERKO 1000PF 20% 1KV |
| C 60027 | 86500 811 2500 | HV-KERKO 1000PF 20% 1KV |
| C 60028 | 84519 971 2400 | ELKO #6 300UF +50-20% 385V |



ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| WW. | 84433 060 5900 | ELKO 15 300/330UF 385V |
| C 61004 | 84529 961 4700 | ELKO 1000UF 20% 25V |
| C 61014 | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 61016 | 85159 110 3800 | FOKO FKP1 100PF 10% 1600V |
| C 61021 | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 61026 | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 61032 | 84529 961 4700 | ELKO 1000UF 20% 25V |
| C 61036 | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 61037 | 84520 970 5700 | ELKO 28 1000UF 63V |
| C 61042 | 84529 961 0700 | ELKO 2200UF 20% 16V |
| C 61061 | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 61066 | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 62021 ⚠ | 86600 982 3800 | SI-KERKO B-SS 2200PF 20% |
| C 62022 ⚠ | 86600 982 3800 | SI-KERKO B-SS 2200PF 20% |
| C 62048 ⚠ | 86600 982 3400 | SI-KERKO B-SS 1000PF 20% |
| C 64001 ⚠ | 85022 000 6600 | FOKO WIMADUR 1500PF 20% |
| C 64002 ⚠ | 85022 000 6600 | FOKO WIMADUR 1500PF 20% |
| C 64006 | 85159 116 0400 | FOKO FKP1 165PF 2,5% 2000V |
| C 70509 | 84529 961 4700 | ELKO 1000UF 20% 25V |
| CD 21201 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 21202 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 21203 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 21206 | 83253 131 0300 | MELF DIODE BAV103 |
| CD 34513 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 34517 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 43326 | 83094 550 3300 | MELF-Z DIODE 3,3 C 0,5W |
| CD 43541 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 43542 | 83094 550 2700 | MELF-Z DIODE 2,7 C 0,5W |
| CD 43551 | 83094 550 6200 | MELF-Z DIODE 6,2 C 0,5 W |
| CD 52303 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 53019 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 55303 | 83094 550 4400 | MELF Z-DIODE 4,3 B 0,5W |
| CD 55304 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 58301 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 58304 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 58307 | 83094 550 2800 | MELF Z-DIODE 2,7 B 0,5W |
| CD 58311 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 58312 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 58321 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 58322 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 65506 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 65519 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 65528 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 70501 | 83094 550 5200 | MELF-Z DIODE 5,1 B 0,5W |
| CD 70506 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 70507 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 70517 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 70553 | 83250 041 4800 | SMD DIODE LS 4148 |
| CIC43550 | 83057 870 5300 | IC M74HC4053RM13TR |
| CIC43550 | 83057 870 5300 | IC M74HC4053RM13TR |
| CT 32305 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32320 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 43525 | 83010 038 5800 | SMD TRANS BC858B |
| CT 43535 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 43565 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 43580 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 43590 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 58012 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 61316 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 65501 | 83015 342 6900 | SMD TRANS PMBT2369 |
| CT 65503 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 65504 | 83015 342 6900 | SMD TRANS PMBT2369 |
| CT 65505 | 83010 038 5800 | SMD TRANS BC858B |
| CT 65506 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 65525 | 83010 068 4800 | SMD-TRANS.3C 848 C |
| CT 65530 | 83010 038 5800 | SMD TRANS BC858B |
| CT 70505 | 83010 048 4800 | SMD-TRANS.3C 848 B |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| D 21212 | 83092 150 2000 | DIODE 1 N 4004 |
| D 32315 | 83097 071 3500 | Z DIODE 33 B 0,5W |
| D 50013 | 83095 162 8300 | DIODE BYV 28-200 RA |
| D 52006 | 83092 150 2000 | DIODE 1 N 4004 |
| D 53008 | 83092 010 0500 | DIODE BA157 |
| D 53019 | 83097 090 0300 | Z DIODE ZY 51 |
| D 53071 | 83092 043 5900 | DIODE BY359 1500 |
| D 53072 | 83092 042 3000 | DIODE BY 229-600 |
| D 54001 | 83092 010 0500 | DIODE BA157 |
| D 54011 | 83092 010 0500 | DIODE BA157 |
| D 54021 | 83095 160 3800 | DIODE BYV38 |
| D 55012 | 83097 203 3300 | Z DIODE 33 C 0,5W |
| D 60006 | 83098 208 8000 | DIODE MUR 880 |
| D 60007 | 83096 631 8000 | Z-DIODE BZT03D180 |
| D 60012 | 83095 167 5400 | DIODE BYT53B |
| D 60023 | 83085 605 2000 | GLR B 380 C 3700/2200 |
| D 60216 | 83092 000 2100 | DIODE BAV21 |
| D 60217 | 83092 011 5900 | DIODE BA159 |
| D 60218 ⚠ | 83096 631 8000 | Z-DIODE BZT03D180 |
| D 61001 | 83095 167 5400 | DIODE BYT53B |
| D 61016 | 83095 167 9800 | DIODE BYT 08 P-1000 |
| D 61026 | 83095 171 0800 | DIODE BYT103-400 |
| D 61033 | 83092 010 0500 | DIODE BA157 |
| D 61036 | 83095 171 0800 | DIODE BYT103-400 |
| D 61061 ⚠ | 83095 171 7200 | DIODE BYW172D |
| D 61066 ⚠ | 83095 171 7200 | DIODE BYW172D |
| D 61603 | 83097 201 3100 | Z DIODE 13 B 0,5W |
| D 64011 | 83092 000 2100 | DIODE BAV21 |
| D 64012 | 83092 000 2100 | DIODE BAV21 |
| D 64013 | 83092 000 2100 | DIODE BAV21 |
| D 64014 | 83092 000 2100 | DIODE BAV21 |
| D 70508 | 83097 201 1600 | Z-DIODE 15 C 0,5W |
| FS 64001 | 29303 230 0200 | FUNKENSTRECKE 1,6KV<br>SPARK GAP |
| IC 34510 | 83053 347 8000 | IC TDA4780V3/ V4 |
| IC 43080 | 83053 664 2000 | IC TEA6420 |
| IC 43570 | 83053 664 2500 | IC TEA6425 |
| IC 43670 | 83053 664 2500 | IC TEA6425 |
| IC 50010 | 83053 441 7300 | IC TDA4173AF |
| IC 55010 | 83053 381 4500 | IC TDA8145 |
| IC 58010 | 83052 043 9300 | IC LM393P |
| IC 60010 | 83053 346 4600 | IC TDA16846 |
| IC 60220 | 83053 615 0100 | IC TEA1501 N1 |
| IC 61001 | 83052 043 1700 | IC LM317T |
| IC 61006 | 83052 043 1700 | IC LM317T |
| IC 61030 | 83052 043 5000 | IC LM350T |
| IC 61040 | 83052 043 5000 | IC LM350T |
| IC 61310 | 83052 043 5700 | IC LM358N |
| L 34517 | 81405 057 4700 | DR B 8,2UH 5% |
| L 53001 | 81049 820 5600 | FERRITPERLE HF70 BTL 3,5X6 |
| L 53002 | 81049 820 5600 | FERRITPERLE HF70 BTL 3,5X6 |
| L 53003 | 81049 820 5600 | FERRITPERLE HF70 BTL 3,5X6<br>FERRITE BEAD |
| L 53011 | 81405 052 4900 | DR A AX-GA 10UH 10% |
| L 53012 | 09240 114 0400 | DROSSEL 1,5 MH/CHOKE COIL |
| L 53021 | 29203 122 9700 | LINEARITAETSREGLER (70CM)<br>LINEARITY CONTROL |
| L 53074 | 09246 859 6400 | SPULE BRUECKE M.KERN<br>BRIDGE COIL |
| L 55014 | 09245 816 0100 | O/W AUSKOPPELSPULE<br>E/W DECOUPLING COIL |
| L 60006 | 29701 739 0800 | DAEMPFUNGSPERLE |
| L 61012 | 81049 820 1400 | DAEMPF-PERLE |
| L 61016 | 81049 820 1400 | DAEMPF-PERLE |
| L 61021 | 81049 820 1400 | DAEMPF-PERLE |
| L 61026 | 81049 820 1400 | DAEMPF-PERLE |
| L 61036 | 81049 820 1400 | DAEMPF-PERLE |



ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

| POS. NR. POS. NO. | | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|---|
| L 61061 | | 81049 820 1400 | DAEMPF-PERLE DAMPING BEAD |
| L 61062 | | 81405 050 6500 | DR A AX-GA 47UH 5% |
| L 61066 | | 81049 820 1400 | DAEMPF-PERLE DAMPING BEAD |
| L 61067 | | 81405 050 6500 | DR A AX-GA 47UH 5% |
| L 70508 | | 09241 035 9700 | STABKERNDROSSEL BAR CORE CHOKE COIL |
| L 70555 | | 81405 057 4700 | DR B 8,2UH 5% |
| OK 60031 | ⚠ | 83060 000 1200 | OPTOKOPPLER CNY17F1 |
| OK 60046 | ⚠ | 83060 000 1200 | OPTOKOPPLER CNY17F1 |
| R 21101 | ⚠ | 87053 690 1300 | MOW 0617 3,3 OHM 5% |
| R 32315 | ⚠ | 87053 700 9900 | MOW 0922 12 KOHM 5% |
| R 43082 | ⚠ | 87011 190 2100 | KSW SI B 6,8 OHM 5% |
| R 43566 | ⚠ | 87004 290 1300 | KSW NB 0207 3,3 OHM 5% |
| R 43581 | ⚠ | 87004 290 1300 | KSW NB 0207 3,3 OHM 5% |
| R 50007 | ⚠ | 87663 274 0500 | MSW 0207 1,5 OHM 1% |
| R 50008 | ⚠ | 87663 274 0500 | MSW 0207 1,5 OHM 1% |
| R 50026 | ⚠ | 87001 212 0500 | KSW 0207 1,5 OHM 5% |
| R 50029 | ⚠ | 87663 570 5300 | MSW 0414 150 OHM 5% |
| R 52001 | ⚠ | 87053 212 2100 | MOW 0411 6,8 OHM 5% |
| R 52003 | ⚠ | 87302 392 3900 | DRW SI ST7 3W 39 OHM 5% |
| R 52005 | ⚠ | 87053 610 1800 | MOW 0617 5,1 OHM 5% |
| R 52006 | ⚠ | 87053 610 1800 | MOW 0617 5,1 OHM 5% |
| R 53002 | ⚠ | 87658 860 0500 | KSW 0207 1,5 OHM 5% |
| R 53003 | ⚠ | 87658 860 0500 | KSW 0207 1,5 OHM 5% |
| R 53008 | ⚠ | 87004 290 9700 | KSW NB 0207 10 KOHM 5% |
| R 53011 | | 87052 270 2100 | MOW 0411 6,8 OHM 5% |
| R 53016 | ⚠ | 87302 800 2100 | DRW SI S11 7W 6,8 OHM 5% |
| R 53021 | ⚠ | 87053 690 6300 | MOW 0617 390 OHM 5% |
| R 54001 | ⚠ | 87350 030 3300 | DRW C,75W 0,33 OHM 10% |
| R 54011 | ⚠ | 87350 030 3300 | DRW C,75W 0,33 OHM 10% |
| R 54021 | ⚠ | 87053 290 2500 | MOW 0411 10 OHM 5% |
| R 54022 | ⚠ | 87053 290 2500 | MOW 0411 10 OHM 5% |
| R 55012 | ⚠ | 87053 690 6500 | MOW 0617 470 OHM 5% |
| R 55014 | ⚠ | 87012 308 1700 | NKS 3 4,7 OHM 5% |
| R 58001 | | 87650 983 0400 | MSW 0207 20 KOHM 2% |
| R 58002 | | 87651 980 8400 | MSW 0207 3 KOHM 1% |
| R 60001 | | 87000 693 4500 | KSW 0617 1 MOHM 2% |
| R 60002 | | 87000 693 5600 | KSW 0617 3 MOHM 2% |
| R 60008 | ⚠ | 87301 793 0100 | DRW 7 15 KOHM 10% |
| R 60012 | | 87000 490 4100 | KSW 0411 47 OHM 5% |
| R 60028 | | 87650 441 2700 | MSW 0414 180 KOHM 5% |
| R 60212 | | 87650 491 5300 | MSW 0414 2,2 MOHM VDE B |
| R 61001 | | 87900 500 1700 | ESTR.SK10-A 220 OHM LIN |
| R 61016 | ⚠ | 87322 960 0100 | DRW 6,5 1 OHM 10% |
| R 61018 | | 87052 213 2100 | MOW 0411 100 KOHM 10% |
| R 61022 | ⚠ | 87322 960 0100 | DRW 6,5 1 OHM 10% |
| R 61031 | | 87900 500 2500 | ESTR.SK10-A 470 OHM LIN |
| R 61033 | ⚠ | 87301 490 4900 | DRW 4 100 OHM 5% |
| R 61041 | | 87900 500 1700 | ESTR.SK10-A 220 OHM LIN |
| R 61313 | | 87900 500 5400 | ESTR.SK10-A 22 KOHM LIN |
| R 62049 | ⚠ | 87663 491 5500 | MSW SI 0414 2,7 MOHM 5% |
| R 64003 | | 87024 010 9700 | KMW 0411 10 KOHM 10% |
| R 64006 | | 87999 996 2100 | FOKUSREG.90/120 MOHM1887N |
| R 65525 | | 83112 120 7000 | PTC C890 A120-A70 |
| SI 60001 | ⚠ | 83156 200 6800 | SI LOET T2A 250V |
| SI 60201 | ⚠ | 83156 070 2600 | SI LOET T100MA 250V |
| SI 61016 | ⚠ | 83156 220 2500 | SI LOET T3,15A 250V |
| SI 61022 | ⚠ | 83156 220 2500 | SI LOET T3,15A 250V |
| SI 61026 | ⚠ | 83156 210 2700 | SI LOET T2,5A 250V |
| SI 61036 | ⚠ | 83156 210 2700 | SI LOET T2,5A 250V |
| SI 61061 | ⚠ | 83156 202 2500 | SI LOET T2A 250V |

| POS. NR. POS. NO. | | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|---|
| SI 61066 | ⚠ | 83156 202 2500 | SI LOET T2A 250V |
| T 21211 | | 83034 012 9900 | TRANS.BF299 G |
| T 50028 | | 83022 105 4400 | TRANS.BD544B |
| T 50029 | | 83022 105 4300 | TRANS.BD543B |
| T 52003 | | 83022 106 8200 | TRANS.BD 679A |
| T 53001 | | 83026 253 3100 | TRANS 2SC5331 |
| T 60006 | | 83028 050 5000 | TRANS IRFPC50 |
| T 64016 | | 83032 876 3900 | TRANS.BC 639 |
| TR 52001 | ⚠ | 09246 867 9700 | UEBERTRAGER VOGT TRANSFORMER |
| TR 53010 | ⚠ | 29201 680 0300 | TRAFO DIODEN-SPLIT DIGI DIODE SPLIT TRANSFORMER |
| TR 60001 | ⚠ | 29201 575 9700 | TRAFO SPERRWANDLER |
| TR 60220 | ⚠ | 29201 617 9700 | TRAFO SPERRWANDLER KPL B.O.-TYPE CONVERTER TRANSFORMER |
| TR 64001 | ⚠ | 29201 449 9700 | FOKUSSIERUNGSUEBERTRAGER FOCUS TRANSFORMER |

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 72010 800 0000, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!

⚠ (!)

The regulations and safety instructions shall be valid as provided by the "Safety" Service Manua, part number 72010 800 0000, as well as the respective national deviations.



GRUNDIG

# Ersatzteilliste
# Spare Parts List

TV

## 6 / 99

## CHASSIS-FS-STEREO CUC 1930 BASIC 3/16:9
## CHASSIS TV STEREO CUC 1930 BASIC 3/16:9

MATERIAL-NR. / PART NO.: 29704 007 0200

| POS. NR. POS. NO. | ABB. FIG. | MATERIAL-NR. PART NUMBER | ANZ. QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| | | 29704 007 0200 | | CHASSIS-FS-STEREO CUC1930 BASIC 3/16:9 KEIN E-TEIL | CHASSIS TV STEREO CUC1930 BASIC 3/16:9 NO SPARE PART |
| 0100.000 | | 29504 262 0100 | X | BAUSTEIN SIGNAL / ZF+TUNER | MODULE SIGNAL / IF+TUNER |
| 0255.000 | | 29303 119 6600 | | EURO-AV BUCHSENLEISTE 21-POL. SW | EURO-AV SOCKET STRIP 21 P BLACK |
| 0256.000 | | 29303 119 6800 | | EURO-AV BUCHSENLEISTE 21-POL. OR | EURO-AV SOCKET STRIP 21 P ORANGE |
| 0268.000 | | 29700 632 1101 | | HALTER BAUSTEIN | HOLDER MODULE |
| 0269.000 | | 29700 633 0100 | | HALTER KABEL | HOLDER |
| 0300.000 | | 29504 203 0200 | X | BAUSTEIN PROZESSOR M.MEGATEXT | MODULE PROCESSOR W.MEGATEXT |
| 0400.000 | | 29504 209 0200 | X | FEATURE-BOX BASIC 3 | FEATURE BOX BASIC 3 |
| 0450.000 | | 29304 050 8200 | | NETZTEIL STAND BY | POWER SUPPLY STAND BY |
| 0500.000 | | 29504 204 0300 | X | BAUSTEIN NF-VERSTAERKER | MODULE AF AMPLIFIER |
| 2200.000 | ⚠ | 29303 399 5100 | | NETZ EINBAUGERAETESTECKER | APPLIANCE COUPLER W.CABLE |
| 2410.000 | | 29303 153 0100 | 2 | MONTAGECLIP T53001/60006 | MOUNTING CLIP T53001/60006 |
| 2420.000 | | 29303 153 1200 | 3 | MONTAGECLIP D53071/53072/60006 | MOUNTING CLIP D53071/53072/60006 |
| 2425.000 | | 29303 153 1208 | 10 | MONTAGECLIP D61016/61026/61036/T50028/50029/IC50010/61001/61006/61030/61040 | MOUNTING CLIP D61016/61026/61036/T50028/50029/IC50010/61001/61006/61030/61040 |
| 2430.000 | | 29303 153 1605 | | MONTAGECLIP T52003 | MOUNTING CLIP T52003 |
| 2470.000 | | 29303 156 18002 | | FOLIE WAERMELEITEND D60006/T60006 | FOIL HEAT CONDUCTING D60006/T60006 |
| 2480.000 | | 29303 156 20001 | 1 | FOLIE WAERMELEITEND D61016/61026/61036/T50028/50029/52003/IC50010/61001/61006/61030/61040 | FOIL HEAT CONDUCTING D61016/61026/61036/T50028/50029/520C3/IC50010/61001/61006/61030/61040 |
| 2490.000 | | 29303 156 2100 | 2 | FOLIE WAERMELEITEND D53071/53072 | FOIL HEAT CONDUCTING D53071/53072 |
| 2495.000 | | 29303 156 2300 | | FOLIE WAERMELEITEND T53001 | FOIL HEAT CONDUCTING T53001 |

| POS. NR. POS. NO. | | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|---|
| C 50012 | | 84529 961 4700 | ELKO 1000UF 20% 25V CB |
| C 50026 | | 84529 961 4700 | ELKO 1000UF 20% 25V CB |
| C 53006 | | 85157 222 4600 | FOKO MKP10/4 0,41UF 5% 1600V |
| C 53007 | | 85157 222 4000 | FOKO MKP10/4 0,2UF 5% 160V |
| C 53012 | | 85159 116 0200 | FOKO FKP1 142PF 2,5% 2000V |
| C 53071 | | 85159 117 0200 | FOKO FKP1 0,0125UF 3,5% 2000V |
| C 53072 | | 85157 225 5600 | FOKO MKP10 0,02UF 5% 630V |
| C 54021 | | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 60001 | | 86500 811 2500 | HV-KERKO 1000PF 20% 1KV |
| C 60002 | | 85206 978 2800 | FOKO KC 390PF 2% 400V RM10 |
| C 60006 | | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 60007 | | 85159 120 6300 | FOKO FKP1 0,033UF 20% 630V |
| C 60009 | | 85159 110 4000 | FOKO FKP1 220PF 10% 1600V |
| C 60012 | | 86500 811 1100 | HV-KERKO 270PF 20% 2KV |
| C 60023 | | 86500 811 2500 | HV-KERKO 1000PF 20% 1KV |
| C 60024 | | 86500 811 2500 | HV-KERKO 1000PF 20% 1KV |
| C 60026 | | 86500 811 2500 | HV-KERKO 1000PF 20% 1KV |
| C 60027 | | 86500 811 2500 | HV-KERKO 1000PF 20% 1KV |
| C 60028 | | 84433 060 5900 | ELKO 15 300/330U= 385V |
| WW. | | 84519 971 2400 | ELKO #6 300UF +50-20% 385V |
| C 61004 | | 84529 961 4700 | ELKO 1000UF 20% 25V |
| C 61014 | | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 61016 | | 85159 110 3800 | FOKO FKP1 100PF 10% 1600V |
| C 61021 | | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 61026 | | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 61032 | | 84529 961 4700 | ELKO 1000UF 20% 25V |

| POS. NR. POS. NO. | | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|---|
| C 61036 | | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 61037 | | 84520 970 5700 | ELKO 28 1000UF 63V |
| C 61042 | | 84529 961 0700 | ELKO 2200UF 20% 16V |
| C 61061 | | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 61064 | | 84529 961 5000 | ELKO 2200UF 20% 25V |
| C 61066 | | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 62021 | ⚠ | 86600 982 3800 | SI-KERKO B-SS 2200PF 20% |
| C 62022 | ⚠ | 86600 982 3800 | SI-KERKO B-SS 2200PF 20% |
| C 62048 | ⚠ | 86600 982 3400 | SI-KERKO B-SS 1000PF 20% |
| C 70509 | | 84529 961 4700 | ELKO 1000UF 20% 25V |
| CD 21221 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 21222 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 21231 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 21232 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 34513 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 34517 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 43026 | | 83094 550 3300 | MELF-Z DIODE 3,3 C 0,5W |
| CD 43541 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 43542 | | 83094 550 2700 | MELF-Z DIODE 2,7 C 0,5W |
| CD 43651 | | 83094 550 6200 | MELF-Z DIODE 6,2 C 0,5W |
| CD 52003 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 53019 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 55003 | | 83094 550 4400 | MELF Z-DIODE 4,3 B 0,5W |
| CD 55004 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 58001 | | 83250 041 4800 | SMD DIODE LS 4148 |

| POS. NR. POS. NO. | | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|---|
| CD 58004 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 58007 | | 83094 550 2800 | MELF Z-DIODE 2,7 B 0,5W |
| CD 58011 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 58012 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 58021 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 58022 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 65506 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 65519 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 65528 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 70501 | | 83094 550 5200 | MELF-Z DIODE 5,1 B 0,5W |
| CD 70506 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 70507 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 70517 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 70521 | | 83094 550 5200 | MELF-Z DIODE 5,1 B 0,5W |
| CD 70522 | | 83094 550 3300 | MELF-Z DIODE 3,3 C 0,5W |
| CD 70523 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 70553 | | 83250 041 4800 | SMD DIODE LS 4148 |
| CIC43550 | | 83057 870 5300 | IC M74HC4C53RM13TR |
| CIC43650 | | 83057 870 5300 | IC M74HC4C53RM13TR |
| CT 21221 | | 83010 068 4800 | SMD-TRANS.BC 848 C |
| CT 21233 | | 83010 068 4800 | SMD-TRANS.BC 848 C |
| CT 32305 | | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 32320 | | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 43525 | | 83010 038 5800 | SMD TRANS.BC858B |
| CT 43535 | | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 43565 | | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 43580 | | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 43590 | | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 58012 | | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 61316 | | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 63501 | | 83015 342 6900 | SMD TRANS.PMBT2369 |
| CT 63503 | | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 63504 | | 83015 342 6900 | SMD TRANS.PMBT2369 |
| CT 63505 | | 83010 038 5800 | SMD TRANS.BC858B |
| CT 63506 | | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 63525 | | 83010 068 4800 | SMD-TRANS.BC 848 C |
| CT 63530 | | 83010 038 5800 | SMD TRANS.BC858B |
| CT 70505 | | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 70520 | | 83010 068 4800 | SMD-TRANS.BC 848 C |
| CT 70525 | | 83010 068 5800 | SMD-TRANS.BC 858 C |
| D 21212 | | 83092 150 2000 | DIODE 1 N 4004 |
| D 32315 | | 83097 071 3500 | Z DIODE 33 B 0,5W |
| D 50013 | | 83095 162 8300 | DIODE BYV 28-200 |
| D 52006 | | 83092 150 2000 | DIODE 1 N 4004 |
| D 53008 | | 83092 010 0500 | DIODE BA157 |
| D 53019 | | 83097 090 0300 | Z DIODE ZY 51 |
| D 53071 | | 83092 043 5900 | DIODE BY359 1500 |
| D 53072 | | 83092 042 3000 | DIODE BY 229-600 |
| D 54001 | | 83092 010 0500 | DIODE BA157 |
| D 54011 | | 83092 010 0500 | DIODE BA157 |
| D 54021 | | 83095 160 3800 | DIODE BYV38 |
| D 55012 | | 83097 203 3300 | Z DIODE 33 C 0,5W |
| D 60006 | | 83098 208 8000 | DIODE MUR 880 |
| D 60007 | | 83096 631 8000 | Z-DIODE BZT03D180 |
| D 60012 | | 83095 167 5400 | DIODE BYT53B |
| D 60023 | | 83085 605 2000 | GLR.B 380 C 3700/2200 |
| D 60216 | | 83092 000 2100 | DIODE BAV21 |
| D 60217 | | 83092 011 5900 | DIODE BA159 |
| D 60218 | ⚠ | 83096 631 8000 | Z-DIODE BZT03D180 |
| D 61001 | | 83095 167 5400 | DIODE BYT53B |
| D 61016 | | 83095 167 9800 | DIODE BYT 08 P-1000 |
| D 61026 | | 83095 171 0800 | DIODE BYT´08-400 |
| D 61033 | | 83092 010 0500 | DIODE BA157 |
| D 61036 | | 83095 171 0800 | DIODE BYT´08-400 |
| D 61036 | | 83095 171 0800 | DIODE BYT´08-400 |
| D 61036 | | 83095 171 0800 | DIODE BYT´08-400 |
| D 61061 | ⚠ | 83095 171 7200 | DIODE BYW172D |

| POS. NR. POS. NO. | | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|---|
| D 61066 | ⚠ | 83095 171 7200 | DIODE BYW172D |
| D 61603 | | 83097 201 3100 | Z DIODE 13 B 0,5W |
| D 70508 | | 83097 201 1600 | Z-DIODE 15 C 0,5W |
| IC 34510 | | 83053 347 8000 | IC TDA4780V3/ V4 |
| IC 43080 | | 83053 664 2000 | IC TEA6420 |
| IC 43570 | | 83053 664 2500 | IC TEA6425 |
| IC 43670 | | 83053 664 2500 | IC TEA6425 |
| IC 50010 | | 83053 441 7300 | IC TDA4173AF |
| IC 55010 | | 83053 381 4500 | IC TDA8145 |
| IC 58010 | | 83052 043 9300 | IC LM393P |
| IC 60010 | | 83053 346 4600 | IC TDA16846 |
| IC 60220 | | 83053 615 0100 | IC TEA1501 N1 |
| IC 61001 | | 83052 043 1700 | IC LM317T |
| IC 61006 | | 83052 043 1700 | IC LM317T |
| IC 61030 | | 83052 043 5000 | IC LM350T |
| IC 61040 | | 83052 043 5000 | IC LM350T |
| IC 61310 | | 83052 043 5700 | IC LM358N |
| L 34517 | | 81405 057 4700 | DR B 8,2UH 5% |
| L 53001 | | 81049 820 5600 | FERRITPERLE HF70 BTL 3,5X6 |
| L 53002 | | 81049 820 5600 | FERRITPERLE HF70 BTL 3,5X6 |
| L 53003 | | 81049 820 5600 | FERRITPERLE HF70 BTL 3,5X6 FERRITE BEAD |
| L 53011 | | 81405 052 4900 | DR A AX-GA 10UH 10% |
| L 53012 | | 09240 114 0400 | DROSSEL 1,5 MH/CHOKE CCIL |
| L 53021 | | 29203 122 9700 | LINEARITAETSREGLER (70CM) LINEARITY CONTROL |
| L 53074 | | 09246 859 6300 | SPULE BRUECKE M.KERN BRIDGE COIL |
| L 55014 | | 09245 816 0100 | O/W AUSKOPPELSPULE E/W DECOUPLING |
| L 60006 | | 29701 739 0800 | DAEMPFUNGSPERLE LV 930 30 |
| L 61012 | | 81049 820 1400 | DAEMPF-PERLE |
| L 61016 | | 81049 820 1400 | DAEMPF-PERLE |
| L 61021 | | 81049 820 1400 | DAEMPF-PERLE |
| L 61026 | | 81049 820 1400 | DAEMPF-PERLE |
| L 61036 | | 81049 820 1400 | DAEMPF-PERLE |
| L 61061 | | 81049 820 1400 | DAEMPF-PERLE DAMPING BEAD |
| L 61062 | | 81405 050 6500 | DR A AX-GA 47UH 5% |
| L 61066 | | 81049 820 1400 | DAEMPF-PERLE DAMPING BEAD |
| L 61067 | | 81405 050 6500 | DR A AX-GA 47UH 5% |
| L 70508 | | 09241 035 9700 | STABKERNDROSSEL BAR CORE CHOKE COIL |
| L 70555 | | 81405 057 4700 | DR B 8,2UH 5% |
| OK 60031 | ⚠ | 83060 000 1200 | OPTOKOPPLER CNY17F1 |
| OK 60046 | ⚠ | 83060 000 1200 | OPTOKOPPLER CNY17F1 |
| R 21103 | ⚠ | 87053 212 2100 | MOW 0411 6,8 OHM 5% |
| R 32315 | ⚠ | 87053 700 9900 | MOW 0922 12 KOHM 5% |
| R 43082 | ⚠ | 87011 190 2100 | KSW SI B 6,8 OHM 5% |
| R 43566 | ⚠ | 87004 290 1300 | KSW NB 0207 3,3 OHM 5% |
| R 43581 | ⚠ | 87004 290 1300 | KSW NB 0207 3,3 OHM 5% |
| R 50007 | ⚠ | 87664 246 1000 | MSW 0207 2,4 OHM 1% |
| R 50008 | ⚠ | 87664 246 1000 | MSW 0207 2,4 OHM 1% |
| R 50029 | ⚠ | 87663 570 5900 | MSW 0414 270 OHM 5% |
| R 52001 | ⚠ | 87053 212 2100 | MOW 0411 6,8 OHM 5% |
| R 52003 | ⚠ | 87302 392 3900 | DRW SI ST7 3W 39 OHM 5% |
| R 52005 | ⚠ | 87053 690 1600 | MOW 0617 4,3 OHM 5% |
| R 52006 | ⚠ | 87053 690 1600 | MOW 0617 4,3 OHM 5% |
| R 53002 | ⚠ | 87658 860 0500 | KSW 0207 1,5 OHM 5% |
| R 53003 | ⚠ | 87658 860 0500 | KSW 0207 1,5 OHM 5% |
| R 53008 | ⚠ | 87004 290 9700 | KSW NB 0207 10 KOHM 5% |
| R 53011 | | 87052 270 2100 | MOW 0411 6,8 OHM 5% |
| R 53016 | ⚠ | 87302 800 2100 | DRW SI S11 7W 6,3 OHM 5% |
| R 53021 | ⚠ | 87053 690 6300 | MOW 0617 390 OHM 5% |
| R 54001 | ⚠ | 87350 030 3300 | DRW 0,75W 0,33 OHM 10% |



ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

| POS. NR. POS. NO. | | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|---|
| R 54011 | ⚠ | 87350 030 3300 | DRW 0,75W 0,33 OHM 10% |
| R 54021 | ⚠ | 87053 290 2500 | MOW 0411 10 OHM 5% |
| R 54022 | ⚠ | 87053 290 2500 | MOW 0411 10 OHM 5% |
| R 55002 | | 87651 980 8100 | MSW 0207 2,2 KOHM 1% |
| R 55012 | ⚠ | 87053 690 6500 | MOW 0617 470 OHM 5% |
| R 55014 | ⚠ | 87012 308 1700 | NKS 3 4,7 OHM 5% |
| R 58001 | | 87650 983 0400 | MSW 0207 20 KOHM 2% |
| R 58002 | | 87651 980 8600 | MSW 0207 3,6 KOHM 1% |
| R 60001 | | 87000 693 4500 | KSW 0617 1 MOHM 2% |
| R 60002 | | 87000 693 5600 | KSW 0617 3 MOHM 2% |
| R 60008 | | 87301 793 0100 | DRW 7 15 KO-HM 10% |
| R 60012 | | 87000 490 4100 | KSW 0411 47 OHM 5% |
| R 60028 | | 87650 441 2700 | MSW 0414 180 KOHM 5% |
| R 60211 | | 87651 980 0900 | MSW 0207 2,2 OHM 1% |
| R 60212 | | 87650 491 5300 | MSW 0414 2,2 MOHM VDE |
| R 61001 | | 87900 500 1700 | ESTR.SK10-A 220 OHM LIN |
| R 61016 | ⚠ | 87322 960 0100 | DRW 6,5 1 OHM 10% |
| R 61018 | | 87052 213 2100 | MOW 0411 100 KOHM 10% |
| R 61022 | ⚠ | 87322 960 0100 | DRW 6,5 1 OHM 10% |
| R 61031 | | 87900 500 2500 | ESTR.SK10-A 470 OHM LIN |
| R 61033 | ⚠ | 87301 490 4900 | DRW 4 100 OHM 5% |
| R 61041 | | 87900 500 1700 | ESTR.SK10-A 220 OHM LIN |
| R 61313 | | 87900 500 5400 | ESTR.SK10-A 22 KOHM LIN |
| R 62049 | ⚠ | 87663 491 5500 | MSW SI 0414 2,7 MOHM 5% |
| R 65525 | | 83112 120 7000 | PTC C 890 A120-A70 |
| SI 60001 | ⚠ | 83156 200 6800 | SI LOETT2A 250V |
| SI 60201 | ⚠ | 83156 070 2600 | SI LOETT100MA 250V |
| SI 61016 | ⚠ | 83156 220 2500 | SI LOETT3,15A 250V |
| SI 61022 | ⚠ | 83156 220 2500 | SI LOETT3,15A 250V |
| SI 61026 | ⚠ | 83156 210 2700 | SI LOETT2,5A 250V |
| SI 61036 | ⚠ | 83156 210 2700 | SI LOETT2,5A 250V |
| SI 61061 | ⚠ | 83156 202 2500 | SI LOETT2A 250V |
| SI 61066 | ⚠ | 83156 202 2500 | SI LOETT2A 250V |
| T 50028 | | 83022 105 4400 | TRANS BD544B |
| T 50029 | | 83022 105 4300 | TRANS BD543B |
| T 52003 | | 83022 106 8200 | TRANS.BD 679A |
| T 53001 | | 83026 253 3100 | TRANS 2SC5331 |
| T 60006 | | 83028 050 5000 | TRANS IRFPC50 |
| TR 52001 | ⚠ | 09246 867 9700 | UEBERTRAGER VOGT DRIVER TRANSFORMER |
| TR 53010 | ⚠ | 29201 680 0300 | TRAFO DIODEN-SPLIT DIGI DIODE SPLIT TRANSFOREMR |
| TR 60001 | ⚠ | 29201 574 9701 | TRAFO SPERRWANDLER |
| TR 60220 | ⚠ | 29201 617 9700 | TRAFO SPERRWANDLER KPL B.O.-TYPE CONVERTER TRANSFORMER |

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 72010 800 0000, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!

The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 72010 800 0000, as well as the respective national deviations.

Btx *32700#

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

GRUNDIG

# Ersatzteilliste
# Spare Parts List

TV

## 2 / 99

## CHASSIS-FS-STEREO DIGI BASIC 3 CUC 1931
## CHASSIS-TV-STEREO DIGI BASIC 3 CUC 1931

ERSETZT AUSGABE 10/98
SUBSTITUTE EDITION 10/98

MATERIAL-NR. / PART NO.: 29704 007 0100

| POS. NR. POS. NO. | ABB. FIG. | MATERIAL-NR. PART NUMBER | ANZ. Q'TY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| CUC1931 | | 29704 007 0100 | | CHASSIS-FS-STEREO DIGI BASIC 3 CUC1931 | CHASSIS TV STEREO DIGI BASIC 3 |
| | | | | KEIN E-TEIL | NO SPARE PART |
| 010C.000 | | 29504 262 0100 | X | BAUSTEIN SIGNAL / ZF+TUNER | MODULE SIGNAL / IF+TUNER |
| 0101.000 | | 29303 119 6600 | | EURO-AV BUCHSENLEISTE 21-P SCHWARZ | EURO-AV SOCKET STRIP 21 P BLACK |
| 0255.000 | | 29303 119 6800 | | EURO-AV BUCHSENLEISTE 21-P ORANGE | EURO-AV SOCKET STRIP 21 P ORANGE |
| 0268.000 | | 29700 632 1300 | | HALTER BAUSTEIN | HOLDER MODULE |
| 030C.000 | | 29504 203 0100 | X | BAUSTEIN PROZESSOR M.MEGATEXT | MODULE PROCESSOR W.MEGATEXT |
| 040C.000 | | 29504 209 0100 | X | FEATURE-BOX BASIC 3 | FEATURE BOX BASIC 3 |
| 040C.000 | ⚠ | 29304 050 8200 | | NETZTEIL STAND BY | POWER SUPPLY STAND BY |
| 050C.000 | | 29504 204 0300 | X | BAUSTEIN NF-VERSTAERKER | MODULE AF AMPLIFIER |
| 102C.000 | ⚠ | 29303 230 0200 | | FUNKENSTRECKE 1,6KV | SPARK GAP 1.6KV |
| | | 29305 025 3700 | | DYN.FOKUSSIERUNGSPLATTE<br>KEIN E-TEIL | DYN.FOCUSING BOARD<br>NO SPARE PART |
| | | 29305 129 0200 | | ROTATIONSPLATTE<br>KEIN E-TEILL | ROTATION BOARD<br>NO SPARE PART |
| 220C.000 | ⚠ | 29303 399 5100 | | NETZ EINBAUGERAETESTECKER | APPLIANCE COUPLER W.CABLE |
| 241C.000 | | 29303 153 0107 | 2 | MONTAGECLIP T53001/60006 | MOUNTING CLIP T53001/60006 |
| 244C.000 | | 29303 153 1208 | 15 | MONTAGECLIP T50028/50029/D53071/ 53072/60006/61016/61026/61033/61036/ C50010/61001/61006/61030/61040/61050 | MOUNTING CLIP T50023/50029/D53071/ 53072/60006/61016/61026/61036/61056/ IC50010/61001/61006/61030/61040/61050 |
| 245C.000 | | 29303 153 1605 | | MONTAGECLIP T52003 | MOUNTING CLIP T52003 |
| 246C.000 | | 29303 156 0300 | | GLIMMERSCHEIBE T53001 | MICA WASHER T53001 |
| 247C.000 | | 29303 156 1800 | | FOLIE WAERMELEITEND T60006 | FOIL HEAT CONDUCTING T60006 |
| 248C.000 | | 29303 156 2000 | 12 | FOLIE WAERMELEITEND T50028/50029/ D60006/61026/61036/61056/IC50010/ 61001/61006/61030/61040/61050 | FOIL HEAT CONDUCTING T50028/50029/ D60006/61026/61036/61056/IC50010/ 61001/61006/61030/61040/61050 |
| 249C.000 | | 29303 156 2100 | 2 | FOLIE WAERMELEITEND D53071/53072 | FOIL HEAT CONDUCTING D53071/53072 |
| | | | | X = SIEHE GESONDERTE E-LISTE | X = SEE SEPARATE PARTS LIST |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| C 50012 | 84529 961 4700 | ELKO 1000UF 20% 25V |
| C 50026 | 84529 961 4700 | ELKO 1000UF 20% 25V CB |
| C 53012 | 85159 116 0200 | FOKO FKP1 142PF 2,5% 2000V |
| C 53071 | 85159 117 0300 | FOKO FKP1 0,013UF 3,5% 2000V |
| C 54021 | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 60001 | 86500 811 2500 | HV-KERKO 1000FF 20% 1KV |
| C 60006 | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 60009 | 85159 110 4000 | FOKO FKP1 220PF 10% 1600V |
| C 60012 | 86500 811 1100 | HV-KERKO 270PF 20% 2KV |
| C 60023 | 86500 811 2500 | HV-KERKO 1000FF 20% 1KV |
| C 60024 | 86500 811 2500 | HV-KERKO 1000FF 20% 1KV |
| C 60026 | 86500 811 2500 | HV-KERKO 1000FF 20% 1KV |
| C 60027 | 86500 811 2500 | HV-KERKO 1000FF 20% 1KV |
| C 60224 | 85159 110 3800 | FOKO FKP1 100PF 10% 1600V |
| C 61004 | 84529 961 4700 | ELKO 1000UF 20% 25V |
| C 61014 | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 61016 | 85159 110 3800 | FOKO FKP1 100PF 10% 1600V |
| C 61021 | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 61026 | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 61032 | 84529 961 4700 | ELKO 1000UF 20% 25V |
| C 61036 | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 61037 | 84520 970 5700 | ELKO 28 1000UF 63V |
| C 61042 | 84529 961 0700 | ELKO 2200UF 20% 16V |
| C 61056 | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 61061 | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 61064 | 84529 961 5000 | ELKO 2200UF 20% 25V |
| C 61066 | 86500 670 4600 | HV-KERKO 100PF 20% 1KV |
| C 62021 ⚠ | 86600 982 3800 | SI-KERKO B-SS 2200PF 20%400V |
| C 62022 ⚠ | 86600 982 3800 | SI-KERKO B-SS 2200PF 20%400V |
| C 62048 ⚠ | 86600 982 3400 | SI-KERKO B-SS 1000PF 20%400V |



| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| C 64006 | 85159 116 0800 | FOKO FKP1 180PF 0+10% 2000V |
| C 70509 | 84529 961 4700 | ELKO 1000UF 20% 25V |
| CD 21221 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 21222 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 21231 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 21232 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 34513 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 34517 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 43026 | 83094 550 3300 | MELF-Z DIODE 3,3 C 0,5W |
| CD 43541 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 43542 | 83094 550 2700 | MELF-Z DIODE 2,7 C 0,5W |
| CD 43551 | 83094 550 6200 | MELF-Z DIODE 6,2 C 0,5 W |
| CD 52303 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 53019 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 55303 | 83094 550 4400 | MELF Z-DIODE 4,3 B 0,5W A |
| CD 55304 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 58301 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 58304 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 58307 | 83094 550 2800 | MELF Z-DIODE 2,7 B 0,5W A |
| CD 58311 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 58312 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 58321 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 58322 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 60201 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 60202 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 60223 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 65506 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 70501 | 83094 550 5200 | MELF-Z DIODE 5,1 B 0,5W |
| CD 70506 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 70507 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 70517 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 70521 | 83094 550 5200 | MELF-Z DIODE 5,1 B 0,5W |
| CD 70522 | 83094 550 3300 | MELF-Z DIODE 3,3 C 0,5W |
| CD 70523 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 70553 | 83250 041 4800 | SMD DIODE LS 4148 |
| CIC43550 | 83057 870 5300 | IC M74HC4053RM13TR |
| CIC43350 | 83057 870 5300 | IC M74HC4053RM13TR |
| CIC64315 | 83057 603 5800 | SMD IC LM358M NSC/TID |
| CIC64330 | 83058 140 9400 | SMD IC MC14094BD |
| CT 21221 | 83010 068 4800 | SMD-TRANS.3C 848 C |
| CT 21233 | 83010 068 4800 | SMD-TRANS.3C 848 C |
| CT 32305 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32320 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 43525 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 43535 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 43565 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 43580 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 43590 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 58012 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 60203 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 60206 | 83010 068 5800 | SMD-TRANS.3C 858 C |
| CT 60213 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 61316 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 64305 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 64310 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 64320 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 64325 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 64331 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 64332 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 64333 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 64334 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 65501 | 83015 342 6900 | SMD TRANS PMBT2369 |
| CT 65503 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 65504 | 83015 342 6900 | SMD TRANS PMBT2369 |
| CT 65505 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 65506 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 65508 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 65525 | 83010 068 4800 | SMD-TRANS.3C 848 C |
| CT 65530 | 83010 038 5800 | SMD-TRANS.EC 858 B |
| CT 65535 | 83010 048 4800 | SMD-TRANS.EC 848 B |
| CT 65536 | 83010 038 5800 | SMD-TRANS.EC 858 B |
| CT 70505 | 83010 048 4800 | SMD-TRANS.EC 848 B |
| CT 70520 | 83010 068 4800 | SMD-TRANS.EC 848 C |
| CT 70525 | 83010 068 5800 | SMD-TRANS.EC 858 C |
| D 21212 | 83092 150 2000 | DIODE 1 N 4004 -GA |
| D 32315 | 83097 071 3500 | Z DIODE 33 B 0,5W |
| D 50013 | 83095 162 8300 | DIODE BYV 26-200 RA 12,5/ |
| D 52006 | 83092 150 2000 | DIODE 1 N 4004 -GA |
| D 53003 | 83092 010 0500 | DIODE BA157 AV619 |
| D 53019 | 83097 090 0300 | Z DIODE ZY 51 ITT |
| D 53071 | 83092 043 5900 | DIODE BY359 1500 PHI/ STU |
| D 53072 | 83092 042 3000 | DIODE BY 229-600 |
| D 54001 | 83092 010 0500 | DIODE BA157 AV619 |
| D 54011 | 83092 010 0500 | DIODE BA157 AV619 |
| D 54021 | 83095 160 3800 | DIODE BYV38 TFK |
| D 55012 | 83097 203 3300 | Z DIODE 33 C 0,5W |
| D 60005 | 83098 208 8000 | DIODE MUR 880 WW BYT 08 P |
| D 60007 | 83096 631 8000 | Z-DIODE BZT03D180 |
| D 60012 | 83095 167 5400 | DIODE BYT53B TFK/ EGP10B |
| D 60023 | 83085 605 2000 | GLR B 380 C 3700/2200 |
| D 60202 | 83097 201 3100 | Z DIODE 13 B 0,5W |
| D 60203 | 83097 200 8300 | Z DIODE 8,2 B 0,5W |
| D 60207 | 83092 150 2000 | DIODE 1 N 4004 -GA |
| D 60208 | 83092 150 2000 | DIODE 1 N 4004 -GA |
| D 60221 | 83092 011 5900 | DIODE BA159 |
| D 60222 ⚠ | 83096 631 8000 | Z-DIODE BZT03D180 |
| D 60223 ⚠ | 83096 631 8000 | Z-DIODE BZT03D180 |
| D 61001 | 83095 167 5400 | DIODE BYT53B TFK |
| D 61013 | 83095 167 9800 | DIODE BYT 08 P-1000 TFK |
| D 61025 | 83098 208 4000 | DIODE MUR 840 |
| D 61033 | 83092 010 0500 | DIODE BA157 |
| D 61035 | 83098 208 4000 | DIODE MUR 840 |
| D 61056 | 83098 208 4000 | DIODE MUR 840 |
| D 61061 ⚠ | 83095 171 7200 | DIODE BYW172D TEMIC |
| D 61066 ⚠ | 83095 171 7200 | DIODE BYW172D TEMIC |
| D 61603 | 83097 201 3100 | Z DIODE 13 B 0,5W |
| D 64011 | 83092 000 2100 | DIODE BAV21 ITT |
| D 64012 | 83092 000 2100 | DIODE BAV21 ITT |
| D 64013 | 83092 000 2100 | DIODE BAV21 ITT |
| D 64014 | 83092 000 2100 | DIODE BAV21 ITT |
| D 64305 | 83097 201 1200 | Z DIODE 12 C 0,5W |
| D 64310 | 83097 201 1200 | Z DIODE 12 C 0,5W |
| D 64315 | 83097 200 5100 | Z DIODE 5,1 B 0,5W |
| D 70508 | 83097 201 1600 | Z-DIODE 15 C 0,5W |
| IC 34510 | 83053 347 8000 | IC TDA4780V3/ V4 |
| IC 43060 | 83053 664 2000 | IC TEA6420 SGS |
| IC 43570 | 83053 664 2500 | IC TEA6425 SGS |
| IC 43670 | 83053 664 2500 | IC TEA6425 SGS |
| IC 50010 | 83053 441 7300 | IC TDA4173AF |
| IC 55010 | 83053 381 4500 | IC TDA8145 |
| IC 58010 | 83052 043 9300 | IC LM393P TID/ 393N RAY |
| IC 60010 | 83053 346 4600 | IC TDA16846 SIE |
| IC 61001 | 83052 043 1700 | IC LM317T NSC |
| IC 61006 | 83052 043 1700 | IC LM317T NSC |
| IC 61030 | 83052 043 5000 | IC LM350T |
| IC 61040 | 83052 043 5000 | IC LM350T |
| IC 61050 | 83052 043 5000 | IC LM350T |
| IC 61310 | 83052 043 5700 | IC LM358N NSC/TID |
| L 34517 | 81405 264 5100 | DR AX 0411-GA 8,2UH 10% |
| L 43082 | 81405 264 5100 | DR AX 0411-GA 8,2UH 10% |
| L 53001 | 81049 820 5600 | FERRITPERLE HF70 BTL 3,5X |
| L 53002 | 81049 820 5600 | FERRITPERLE HF70 BTL 3,5X |
| L 53003 | 81049 820 5600 | FERRITPERLE HF70 BTL 3,5X FERRITE BEAD |
| L 53011 | 81405 052 4900 | DR A AX-GA 10UH 10% |

| POS. NR. / POS. NO. | MATERIAL-NR. / PART NUMBER | BEZEICHNUNG / DESCRIPTION |
|---|---|---|
| L 53012 | 09240 114 0400 | DROSSEL 1,5 MH/CHOKE COIL |
| L 53021 | 29203 122 9700 | LINEARITAETSREGLER (70CM) LINEARITY CONTROL |
| L 53074 | 09246 859 6300 | SPULE BRUECKE M.KERN BRIDGE COIL |
| L 55014 | 09245 816 0100 | O/W AUSKOPPELSPULE E/W DECOUPLING COIL |
| L 60006 | 29701 739 0800 | DAEMPFUNGSPERLE UV 930 30 |
| L 61012 | 81049 820 1400 | DAEMPF-PERLE 433003038*02 |
| L 61016 | 81049 820 1400 | DAEMPF-PERLE 433003038*02 |
| L 61021 | 81049 820 1400 | DAEMPF-PERLE 433003038*02 |
| L 61026 | 81049 820 1400 | DAEMPF-PERLE 433003038*02 |
| L 61036 | 81049 820 1400 | DAEMPF-PERLE 433003038*02 |
| L 61056 | 81049 820 1400 | DAEMPF-PERLE 433003038*02 |
| L 61061 | 81049 820 1400 | DAEMPF-PERLE 433003038*02 DAMPING BEAD |
| L 61062 | 81405 050 6500 | DR A AX-GA 47UH 5% |
| L 61066 | 81049 820 1400 | DAEMPF-PERLE 433003038*02 DAMPING BEAD |
| L 61067 | 81405 050 6500 | DR A AX-GA 47UH 5% |
| L 70508 | 09241 035 9700 | STABKERNDROSSEL BAR CORE CHOKE COIL |
| L 70555 | 81405 264 5100 | DR AX 0411-GA 8,2UH 10% |
| OK 0031 | 83060 000 1200 | OPTOKOPPLER CNY17F1 |
| OK 0046 | 83060 000 1200 | OPTOKOPPLER CNY17F1 |
| R 21103 | 87053 212 2100 | MOW 0411 6,8 OHM 5% |
| R 21212 | 87000 075 4900 | KSW 0207 1,5 MOHM 5% |
| R 32315 | 87053 700 9900 | MOW 0922 12 KOHM 5% |
| R 43566 | 87003 290 1300 | KSW NB 0207 3,3 OHM 5% |
| R 43581 | 87003 290 1300 | KSW NB 0207 3,3 OHM 5% |
| R 50007 | 87663 274 1000 | MSW 0207 2,4 OHM 1% |
| R 50008 | 87663 274 1000 | MSW 0207 2,4 OHM 1% |
| R 50027 | 87001 212 0500 | KSW 0207 1,5 OHM 5% |
| R 50029 | 87663 570 5900 | MSW 0414 270 OHM 5% |
| R 52001 | 87053 290 1700 | MOW 0411 4,7 OHM 5% |
| R 52003 | 87302 392 3900 | DRW SI ST7 3W 39 OHM 5% |
| R 52005 | 87053 600 0800 | MOW 0617 3,9 OHM 5% |
| R 52006 | 87053 690 1300 | MOW 0617 3,3 OHM 5% |
| R 53002 | 87001 212 0500 | KSW 0207 1,5 OHM 5% |
| R 53003 | 87001 212 0500 | KSW 0207 1,5 OHM 5% |
| R 53008 | 87003 290 9700 | KSW NB 0207 10 KOHM 5% |
| R 53016 | 87302 800 2100 | DRW SI S11 7W 6,8 OHM 5% |
| R 53021 | 87053 690 6300 | MOW 0617 390 OHM 5% |
| R 54001 | 87350 030 3300 | DRW C,75W 0,33 OHM 10% |
| R 54011 | 87350 030 3300 | DRW C,75W 0,33 OHM 10% |
| R 54021 | 87053 290 2500 | MOW 0411 10 OHM 5% |
| R 54022 | 87053 290 2500 | MOW 0411 10 OHM 5% |
| R 55012 | 87053 690 6500 | MOW 0617 470 OHM 5% |
| R 55014 | 87012 308 1700 | NKS 3 4,7 OHM 5% |
| R 58001 | 87650 983 0400 | MSW 0207 20 KOHM 2% |
| R 58002 | 87651 980 8600 | MSW 0207 3,6 KOHM 1% |
| R 60001 | 87000 693 4500 | KSW 0617 1 MOHM 2% |
| R 60002 | 87000 693 5600 | KSW 0617 3 MOHM 2% |
| R 60008 | 87301 793 0100 | DRW 7 15 KOHM 10% |
| R 60207 | 87003 290 1700 | KSW NB 0207 4,7 OHM 5% |
| R 60211 | 87650 491 5500 | MSW 0414 2,7 MOHM VDE |
| R 60212 | 87650 491 5500 | MSW 0414 2,7 MOHM VDE |
| R 61001 | 87900 500 1700 | ESTR.SK10-A 22C OHM/ LIN |
| R 61016 | 87322 960 0100 | DRW 6,5 1 OHM 10% |
| R 61022 | 87322 960 0100 | DRW 6,5 1 OHM 10% |
| R 61031 | 87900 500 2500 | ESTR.SK10-A 47C OHM/ LIN |
| R 61033 | 87301 490 4900 | DRW 4 100 OHM 5% |
| R 61041 | 87900 500 1700 | ESTR.SK10-A 22C OHM/ LIN |
| R 61051 | 87900 500 1700 | ESTR.SK10-A 22C OHM/ LIN |

| POS. NR. / POS. NO. | MATERIAL-NR. / PART NUMBER | BEZEICHNUNG / DESCRIPTION |
|---|---|---|
| R 61313 | 87900 500 5400 | ESTR.SK10-A 22 KOHM LIN |
| R 62049 | 87663 491 5500 | MSW SI 0414 2,7 MOHM 5% |
| R 64307 | 87004 290 4100 | KSW NB 0207 47 OHM 5% |
| R 64308 | 87004 290 4100 | KSW NB 0207 47 OHM 5% |
| R 65525 | 83112 120 7000 | PTC C 890 A120-A70 SIE |
| SI 60001 | 83156 202 2500 | SI LOET T2A 250V |
| SI 60201 | 83156 070 2600 | SI LOET T100MA 250V |
| SI 61016 | 83156 220 2500 | SI LOET T3,15A 250V AV330 |
| SI 61022 | 83156 220 2500 | SI LOET T3,15A 250V AV330 |
| SI 61026 | 83156 210 2700 | SI LOET T2,5A 250V AV330 |
| SI 61036 | 83156 210 2700 | SI LOET T2,5A 250V AV330 |
| SI 61056 | 83156 210 2700 | SI LOET T2,5A 250V AV330 |
| SI 61061 | 83156 202 2500 | SI LOET T2A 250V |
| SI 61066 | 83156 202 2500 | SI LOET T2A 250V |
| T 50028 | 83022 105 4400 | TRANS.BD 538 |
| T 50029 | 83022 105 4300 | TRANS.BD 537 SGS |
| T 52003 | 83022 106 8200 | TRANS.BD 679A SGS |
| T 53001 | 83026 253 3100 | TRANS 2SC5331 |
| T 60006 | 83028 050 5000 | TRANS IRFPC50 |
| T 64016 | 83032 876 3900 | TRANS.BC 639 |
| TR 52001 | 09246 867 9700 | UEBERTRAGER VOGT TRANSFORMER |
| TR 53010 | 29201 680 0300 | TRAFO DIODEN-SPLIT DIGI DIODE SPLIT TANSFORMER |
| TR 60001 | 29201 574 9700 | TRAFO SPERRWANDLER B.O.-TYPE CONVERTER TRANSFORMER |
| TR 60220 | 29201 701 9700 | TRAFO STAND-BY TANSFORMER STAN-BY |
| TR 64001 | 29201 449 9700 | FOKUSSIERUNGSUEBERTRAGER FOCUS TRANSFORMER |

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 72010 800 0000, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!

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## BAUSTEIN SIGNAL / ZF + TUNER
## MODULE SIGNAL / IF + TUNER

MATERIAL-NR. / PART NO.: 29504 202 0100

| POS. NR. / POS. NO. | ABB. / FIG. | MATERIAL-NR. / PART NUMBER | ANZ. / QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| | | 29504 202 0100 | | BAUSTEIN SIGNAL / ZF+TUNER | MODULE SIGNAL / IF+TUNER |
| 0100.000 | | 29504 301 0100 | | TUNER-GLOBAL (PLL) | TUNER-GLOBAL (PLL) |

| POS. NR. / POS. NO. | MATERIAL-NR. / PART NUMBER | BEZEICHNUNG / DESCRIPTION |
|---|---|---|
| CD 32004 | 83094 550 5100 | MELF-Z DIODE 5,1 C 0,5W |
| CD 32030 | 83094 550 5100 | MELF-Z DIODE 5,1 C 0,5W |
| CD 32041 | 83094 015 9200 | SMD DIODE BA592 SIE |
| CD 32042 | 83094 015 9200 | SMD DIODE BA592 SIE |
| CD 32043 | 83094 015 9200 | SMD DIODE BA592 SIE |
| CD 32044 | 83094 015 9200 | SMD DIODE BA592 SIE |
| CD 32047 | 83094 015 9200 | SMD DIODE BA592 SIE |
| CD 32048 | 83094 015 9200 | SMD DIODE BA592 SIE |
| CD 32071 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 32072 | 83250 041 4800 | SMD DIODE LS 4148 |
| CIC32030 | 83058 140 9400 | SMD IC MC14094BD |
| CIC32080 | 83057 340 5300 | SMD IC HEF4053BT PHI |
| CT 32041 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32042 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32043 | 83010 006 6000 | SMD-TRANS.3F 660 |
| CT 32044 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32045 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 32061 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32062 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32101 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 32104 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 32111 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32112 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 32113 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32114 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32119 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32132 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32133 | 83011 850 2000 | SMD-TRANS.3FS20 PHI |
| CT 32134 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 32211 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32215 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 32216 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 32217 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| F 32041 | 81405 313 5100 | SPULE 7X7 351 FARBE 718 |
| F 32043 | 81405 353 9100 | SPULE 7X7 #391 S GN535391 |
| F 32051 | 83190 095 5100 | OFW FIL K9551M |
| F 32052 | 83190 039 5100 | OFW G 3957 M SIE |
| F 32053 | 83190 094 6000 | OFW L 9460 |
| F 32054 | 83190 039 5500 | OFW G3955M SIE |

| POS. NR. / POS. NO. | MATERIAL-NR. / PART NUMBER | BEZEICHNUNG / DESCRIPTION |
|---|---|---|
| F 32101 | 81418 124 0500 | FILTER 7X7 405 SIGN 11240 |
| F 32101 | 81411 124 0500 | FILTER 7X7 405 SIGN 11240 |
| F 32111 | 81411 113 6000 | FILTER 7X7 360 SIGN 11136 |
| F 32111 | 81418 113 6000 | FILTER 7X7 360 SIGN 11136 |
| F 32124 | 86027 555 2100 | CER.TRAP 21 TPS 5,5 MHZ |
| IC 32010 | 83053 369 3000 | IC TDA6930S |
| L 32001 | 81405 253 4300 | DR B AX-GA 15UH 10% |
| L 32003 | 81405 057 4700 | DR B 8,2UH 5% |
| L 32124 | 81405 260 3400 | DR 0309 10UH 5% |
| R 32033 | 87920 021 4600 | ESTR.S6 4,7 KOHM LIN |
| R 32057 | 87920 021 5100 | ESTR.S6 10 KOHM LIN |

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## BAUSTEIN SIGNAL + TUNER
## MODULE SIGNAL + TUNER

MATERIAL-NR. / PART NO.: 29504 212 0200

| POS. NR. ABB. POS. NO. FIG. | MATERIAL-NR. ANZ. PART NUMBER QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|
| | 29504 212 0200 | BAUSTEIN SIGNAL +TUNER | MODULE SIGNAL +TUNER |
| 0100.000 | 81406 016 1900 | TUNER 2 4702PH5 3X7572H | TUNER 2 4702PH5 3X7572H |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| CD 32033 | 83094 550 6800 | MELF-Z DIODE 6,8 C 0,5 W |
| CD 32041 | 83094 015 9200 | SMD DIODE BA592 SIE/ BA78 |
| CD 32042 | 83094 015 9200 | SMD DIODE BA592 SIE/ BA78 |
| CD 32043 | 83094 015 9200 | SMD DIODE BA592 SIE/ BA78 |
| CIC32030 | 83058 140 9400 | SMD IC MC14094BD |
| CT 32055 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 32060 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 32070 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 32075 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 32130 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 32135 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 32140 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 32150 | 83010 038 5800 | SMD-TRANS.BC 858 B |
| CT 32170 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 32180 | 83010 038 5800 | SMD-TRANS.BC 858 B |
| CT 32185 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 32190 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 32210 | 83010 038 5800 | SMD-TRANS.BC 858 B |
| CT 32220 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| F 32041 | 81405 313 5100 | SPULE 7X7 351 FARBE 718 |
| F 32050 | 83190 062 6200 | OFW K 6262 K |
| F 32052 | 83190 039 5100 | OFW G 3957 M S E |
| F 32085 | 81405 353 9100 | SPULE 7X7 #391 SIGN535391 |
| F 32151 | 81411 124 0500 | FILTER 7X7 405 SIGN 11240 |
| F 32211 | 81411 113 6000 | FILTER 7X7 360 SIGN 11136 |
| IC 32110 | 83053 369 3000 | IC TDA6930S |
| L 32001 | 81405 253 4300 | DR B AX-GA 15UH 10% |
| L 32008 | 81405 253 4300 | DR B AX-GA 15UH 10% |
| R 32122 | 87920 021 4600 | ESTR.S6 4,7 KOHM LIN |
| R 32334 | 87920 021 4600 | ESTR.S6 4,7 KOHM LIN |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|

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## BAUSTEIN SIGNAL/ZF+TUNER
## MODULE SIGNAL/IF+TUNER

MATERIAL-NR. / PART NO.: 29504 262 0100

| POS. NR. ABB. POS. NO. FIG. | MATERIAL-NR. ANZ. PART NUMBER QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|
| | 29504 262 0100 | BAUSTEIN SIGNAL / ZF+TUNER | MODULE SIGNAL / IF+TUNER |
| 0100.000 | 29504 301 0100 | TUNER-GLOBAL (PLL) | TUNER-GLOBAL (PLL) |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| CD 32004 | 83094 550 5100 | MELF-Z DIODE 5,1 C 0,5W |
| CD 32030 | 83094 550 5100 | MELF-Z DIODE 5,1 C 0,5W |
| CD 32041 | 83094 015 9200 | SMD DIODE BA592 SIE |
| CD 32042 | 83094 015 9200 | SMD DIODE BA592 SIE |
| CD 32043 | 83094 015 9200 | SMD DIODE BA592 SIE |
| CD 32044 | 83094 015 9200 | SMD DIODE BA592 SIE |
| CD 32047 | 83094 015 9200 | SMD DIODE BA592 SIE |
| CD 32048 | 83094 015 9200 | SMD DIODE BA592 SIE |
| CD 32071 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 32072 | 83250 041 4800 | SMD DIODE LS 4148 |
| CIC32030 | 83058 140 9400 | SMD IC MC14094BD |
| CIC32080 | 83057 340 5300 | SMD IC HEF4053BT PHI |
| CT 32041 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32042 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32043 | 83010 006 6000 | SMD-TRANS.3F 660 |
| CT 32044 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32045 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 32061 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32062 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32101 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 32104 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 32111 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32112 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 32113 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32114 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32119 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32132 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32133 | 83011 850 2000 | SMD-TRANS 3FS20 PHI |
| CT 32134 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 32211 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 32215 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 32216 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 32217 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| F 32041 | 81405 313 5100 | SPULE 7X7 351 FARBE 718 |
| F 32043 | 81405 353 9100 | SPULE 7X7 #391 SIGN535391 |
| F 32051 | 83190 095 5100 | OFWFIL K9551M |
| F 32052 | 83190 039 5100 | OFW G 3957 M SIE |
| F 32053 | 83190 094 6000 | OFW L 9460 |
| F 32054 | 83190 039 5500 | OFW G3955M SIE |
| F 32101 | 81418 124 0500 | FILTER 7X7 405 SIGN 11240 |
| F 32101 | 81411 124 0500 | FILTER 7X7 405 SIGN 11240 |
| F 32111 | 81411 113 6000 | FILTER 7X7 360 SIGN 11136 |
| F 32111 | 81418 113 6000 | FILTER 7X7 360 SIGN 11136 |
| F 32124 | 86027 555 2100 | CER.TRAP 21 TPS 5,5 MHZ |
| IC 32010 | 83053 369 3000 | IC TDA6930S |
| L 32001 | 81405 253 4300 | DR B AX-GA 15UH 10% |
| L 32003 | 81405 057 4700 | DR B 8,2UH 5% |
| L 32124 | 81405 260 3400 | DR 0309 10UH 5% |
| R 32033 | 87920 021 4600 | ESTR.S6 4,7 KOHM LIN |
| R 32057 | 87920 021 5100 | ESTR.S6 10 KOHM LIN |

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## BAUSTEIN PROZESSOR MIT MEGATEXT
## MODULE PROCESSOR WITH MEGATEXT

MATERIAL-NR. / PART NO.: 29504 203 0100

| POS. NR. ABB. POS. NO. FIG. | MATERIAL-NR. ANZ. PART NUMBER QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|
| | 29504 203 0100 | BAUSTEIN PROZESSOR M.MEGATEXT | MODULE PROCESSOR W.MEGATEXT |
| 0100.000 | 29303 168 0900 | CINCH-BUCHSE 2-FACH RT/WS | CINCH SOCKET 2 FOLD |
| 0200.000 | 29303 119 1800 | D-SUB BUCHSENLEISTE 15-POL | D-SUB SOCKET STRIP 15 PLS |
| 0300.000 | 29305 129 0300 | EPG-PLATTE BASIC 3 | EPG BOARD BASIC 3 |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| CIC46010 | 83051 587 7500 | SMD IC SDA5275P |
| CIC46020 | 83059 316 0000 | SMD IC HYB5116400BJ-60 |
| CIC46021 | 83059 314 0000 | SMD IC HYB514400BJ-60 |
| CIC46040 | 83058 486 0100 | SMD IC TDA8601T/C1 |
| CIC46100 | 83057 850 0400 | SMD IC 74F04 |
| CIC46110 | 83057 730 7400 | SMD IC 74HCT74D |
| CIC46125 | 83057 730 0400 | IC 74HCT04D/T3 |
| CIC46140 | 83057 850 0800 | SMD IC 74F08D |
| CIC46145 | 83057 851 7400 | SMD IC 74F174D/T3 |
| CIC46215 | 83057 870 5300 | IC M74HC4053RM13TR |
| CIC46245 | 83057 730 8600 | SMD IC 74HCT86D/T3 |
| CIC46250 | 83057 861 2500 | SMD IC 74HC125D/T3 |
| CIC80010 | 83057 870 9400 | SMD IC 74HC4094 |
| CIC80050 | 83058 281 6100 | SMD IC SAB-C161 RI-L16F |
| CIC80095 | 83059 600 1700 | SMD IC M24C16-MN1T |
| CIC80150 | 83059 561 3200 | SMD IC UM61256FS-15 |
| CIC80420 | 83058 532 8400 | SMD IC 28F004S5-85 |
| CT 46005 | 83010 038 5800 | SMD TRANS BC858B |
| CT 80004 | 83010 038 5800 | SMD TRANS BC858B |
| CT 80005 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 80010 | 83010 038 5800 | SMD TRANS BC858B |
| CT 80020 | 83010 038 5800 | SMD TRANS BC858B |
| CT 80025 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 80035 | 83010 038 5800 | SMD TRANS BC858B |
| CT 80040 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 80050 | 83010 038 5800 | SMD TRANS BC858B |
| CT 80055 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 80085 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 80090 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 80095 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 80105 | 83010 038 5800 | SMD TRANS BC858B |
| CT 80110 | 83010 038 5800 | SMD TRANS BC858B |
| D 80002 | 83092 150 4500 | DIODE 1N4148 |
| D 80003 | 83092 150 4500 | DIODE 1N4148 |
| D 80108 | 83092 150 4500 | DIODE 1N4148 |
| IC 46120 | 83052 081 2200 | IC M51422-/B-30R OKI |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| IC 80045 | 83052 100 6400 | IC MC33164P-5RP |
| IC 80410 | 29798 101 0100 | IC M27C160 PROG.KPL |
| L 46111 | 81049 820 1400 | DAEMPF-PERLE |
| L 46223 | 81049 820 1400 | DAEMPF-PERLE |
| L 80040 | 81049 820 1400 | DAEMPF-PERLE |
| L 80041 | 81049 820 1400 | DAEMPF-PERLE |
| L 80042 | 81049 820 1400 | DAEMPF-PERLE<br>DAMPING BEAD |
| Q 46001 | 86023 411 6000 | KERRES #160 20,48MHZ |
| Q 80067 | 86023 411 4500 | KERRES #145/2 16MHZ |

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## BAUSTEIN PROZESSOR MEGATEXT
## MODULE PROCESSOR MEGATEXT

ERSETZT AUSGABE 3/99
SUBSTITUTE EDITION 3/99

MATERIAL-NR. / PART NO.: 29504 203 0200

| POS. NR. ABB. POS. NO. FIG. | MATERIAL-NR. ANZ. PART NUMBER QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|
| | 29504 203 0200 | BAUSTEIN PROZESSOR M.MEGATEXT | MODULE PROCESSOR W.MEGATEXT |
| 0100.000 | 29303 168 0900 | CINCH-BUCHSE 2-FACH NF L,R | CINCH SOCKET 2 FOLD AF L,R |
| 0200.000 | 29303 119 1800 | D-SUB BUCHSENLEISTE 15-POL | D-SUB SOCKET STRIP 15 P |
| 0300.000 | 29305 129 0300 | EPG-PLATTE BASIC 3 | EPG BOARD BASIC 3 |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| CIC46010 | 83051 587 7500 | SMD IC SDA5275P SIE |
| CIC46020 | 83059 316 0000 | SMD IC HYB5116400BJ-60 |
| CIC46021 | 83059 314 0000 | SMD IC HYB514400BJ-60 |
| CIC46215 | 83057 870 5300 | IC M74HC4053RM13TR |
| CIC46245 | 83057 730 8600 | SMD IC 74HCT86D/T3 |
| CIC46250 | 83057 861 2500 | SMD IC 74HC125D/T3 |
| CIC80010 | 83057 870 9400 | SMD IC 74HC4094 |
| CIC80050 | 83058 281 6100 | SMD IC SAB-C161 RI-L16F |
| CIC80095 | 83059 600 1700 | SMD IC M24C16-MN1T |
| CIC80150 | 83059 561 3200 | SMD IC UM61256FS-15 |
| CIC80420 | 83058 532 8400 | SMD IC 28F004S5 TSOP40 |
| CT 46005 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 80004 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 80005 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 80010 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 80020 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 80025 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 80035 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 80040 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 80050 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 80055 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 80085 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 80090 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 80095 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 80105 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 80110 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| D 46201 | 83092 150 4500 | DIODE 1N4148 |
| D 46202 | 83092 150 4500 | DIODE 1N4148 |
| D 46203 | 83092 150 4500 | DIODE 1N4148 |
| D 46204 | 83092 150 4500 | DIODE 1N4148 |
| D 80002 | 83092 150 4500 | DIODE 1N4148 |
| D 80003 | 83092 150 4500 | DIODE 1N4148 |
| D 80108 | 83092 150 4500 | DIODE 1N4148 |
| IC 80045 | 83052 100 6400 | IC MC33164P-5RP |
| IC 80410 | 29798 101 0100 | IC M27C160 PROGR. KPL. |
| L 46002 | 81405 260 2400 | DR ST 0309 3,9UH 10% |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| L 46003 | 81405 260 2400 | DR ST 0309 3,9UH 10% |
| L 46004 | 81405 260 2400 | DR ST 0309 3,9UH 10% |
| L 46062 | 81405 265 4400 | DR ST 0411 10UH 10% |
| L 46223 | 81049 820 1400 | DAEMPF-PERLE 433003C38102 |
| Q 46001 | 86023 411 6000 | KERRES #160 20,48MHZ |
| Q 80067 | 86023 411 4500 | KERRES #145/2 16MHZ |

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 72010 800 0000, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!

The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 72010 800 0000, as well as the respective national deviations.

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## BAUSTEIN PROZESSOR MIT MEGATEXT
## MODULE PROCESSOR WITH MEGATEXT

MATERIAL-NR. / PART NO.: 29504 203 0400

| POS. NR. POS. NO. | ABB. FIG. | MATERIAL-NR. PART NUMBER | ANZ. QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| | | 29504 203 0400 | | BAUSTEIN PROZESSOR M.MEGATEXT<br>KEIN E-TEIL | MODULE PROCESSOR W.MEGATEXT<br>NO SPARE PART |
| 0300.000 | | 29305 129 0300 | | EPG-PLATTE BASIC 3 | EPG BOARD BASIC 3 |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| CIC46010 | 83051 587 7500 | SMD IC SDA5275P SIE |
| CIC46020 | 83059 316 0000 | SMD IC HYB5116400BJ-60 |
| CIC46021 | 83059 314 0000 | SMD IC HYB5144J0BJ-60 |
| CIC80010 | 83057 870 9400 | SMD IC 74HC4094 |
| CIC80050 | 83058 281 6100 | SMD IC SAB-C161 RI-L16F |
| CIC80095 | 83059 600 1700 | SMD IC M24C16-MN1T |
| CIC80150 | 83059 561 3200 | SMD IC UM61256FS-15 |
| CIC80420 | 83058 532 8400 | SMD IC 28F004S5-85 |
| CT 46005 | 83010 038 5800 | SMD TRANS BC858B |
| CT 80004 | 83010 038 5800 | SMD TRANS BC858B |
| CT 80005 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 80010 | 83010 038 5800 | SMD TRANS BC858B |
| CT 80020 | 83010 038 5800 | SMD TRANS BC858B |
| CT 80025 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 80035 | 83010 038 5800 | SMD TRANS BC858B |
| CT 80040 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 80050 | 83010 038 5800 | SMD TRANS BC858B |
| CT 80055 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 80085 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 80090 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 80095 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 80105 | 83010 038 5800 | SMD TRANS BC858B |
| CT 80110 | 83010 038 5800 | SMD TRANS BC858B |
| D 80002 | 83092 150 4500 | DIODE 1N4148 AV619 |
| D 80003 | 83092 150 4500 | DIODE 1N4148 AV619 |
| D 80108 | 83092 150 4500 | DIODE 1N4148 AV619 |
| IC 80045 | 83052 100 6400 | IC MC33164P-5RP |
| IC 80410 | 29798 101 0100 | IC M27C160 PROG.KPL |
| L 46223 | 81049 820 1400 | DAEMPF-PERLE |
| L 80040 | 81049 820 1400 | DAEMPF-PERLE |
| L 80041 | 81049 820 1400 | DAEMPF-PERLE |
| L 80042 | 81049 820 1400 | DAEMPF-PERLE |
| Q 46001 | 86023 411 6000 | KERRES #130 20.48MHZ |
| Q 80067 | 86023 411 4500 | KERRES #145/2 16MHZ |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|

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## BAUSTEIN PIP BASIC 3
## MODULE PIP BASIC 3

MATERIAL-NR. / PART NO.: 29504 206 0100

| POS. NR. POS. NO. | ABB. FIG. | MATERIAL-NR. PART NUMBER | ANZ. QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| | | 29504 206 0100 | | BAUSTEIN PIP BASIC 3 | MODULE PIP BASIC 3 |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| CIC29040 | 83059 492 8800 | SMD IC SDA9288X SIE |
| CT 28073 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 28084 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 29051 | 83010 038 5800 | SMD-TRANS.BC 858 B |
| CT 29053 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 29061 | 83010 038 5800 | SMD-TRANS.BC 858 B |
| CT 29063 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 29071 | 83010 038 5800 | SMD-TRANS.BC 858 B |
| CT 29073 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| D 28037 | 83092 150 4500 | DIODE 1N4148 |
| IC 28030 | 83053 383 9600 | IC TDA8395P/N3 |
| IC 28050 | 83053 383 1000 | IC TDA8310A N1 SDIP52 PHI |
| L 28011 | 81405 264 4000 | DR ST 0411-GRP 8,2UH 10% |
| L 28051 | 81405 264 4000 | DR ST 0411-GRP 8,2UH 10% |
| L 29042 | 81405 264 4000 | DR ST 0411-GRP 8,2UH 10% |
| Q 28021 | 83820 470 0300 | QUARZ 3,579545 MHZ Q 47/2 |
| Q 28027 | 83821 350 0400 | QUARZ 4,433619 MHZ Q 135/ |
| Q 29031 | 86023 411 6000 | KERRES #160 20,48MHZ |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|

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**BAUSTEIN NF VIRTUAL DOLBY INL**
**MODULE AF VIRTUAL DOLBY INL**

ERSETZT AUSGABE 3/99
SUBSTITUTE EDITION 3/99

MATERIAL-NR. / PART NO.: 29504 204 0100

| POS. NR. POS. NO. | ABB. FIG. | MATERIAL-NR. PART NUMBER | ANZ. QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| | | 29504 204 0100 | | BAUSTEIN NF VIRTUAL DOLBY INL | MODULE AF VIRTUAL DOLBY INL |
| 0253.000 | | 29303 168 0900 | | CINCH-BUCHSE 2-FACH NF L,R | CINCH SOCKET 2 FOLD AF L,R |
| 2410.000 | | 29303 153 0107 | | MONTAGECLIP IC40110 | MOUNTING CLIP IC40110 |
| 2495.000 | | 29303 156 3201 | | FOLIE WAERMELEITEND IC40110 | FOIL HEAT CONDUCTING IC40110 |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| C 40021 | 84529 961 5500 | ELKO 4700UF 20% 25V |
| C 40041 | 84529 961 5500 | ELKO 4700UF 20% 25V |
| C 40066 | 86682 030 0100 | ABBLOCK-C 0,01 UF -GR 25V BLOCKING CAPACITOR |
| CT 40013 | 83010 038 5800 | SMD-TRANS.BC 858 B |
| CT 40066 | 83010 058 1800 | SMD-TRANS.BC 818-25 S8 |
| CT 40171 | 83010 068 5800 | SMD-TRANS.BC 858 C |
| CT 40181 | 83010 068 5800 | SMD-TRANS.BC 858 C |
| CT 40270 | 83010 038 5800 | SMD-TRANS.BC 858 B |
| CT 40275 | 83010 058 1800 | SMD-TRANS.BC 818-25 S8 |
| CT 40280 | 83010 058 1800 | SMD-TRANS.BC 818-25 S8 |
| CT 40290 | 83010 058 1800 | SMD-TRANS.BC 818-25 S8 |
| CT 40295 | 83010 058 1800 | SMD-TRANS.BC 818-25 S8 |
| CT 41031 | 83010 058 1800 | SMD-TRANS.BC 818-25 S8 |
| CT 41041 | 83010 058 1800 | SMD-TRANS.BC 818-25 S8 |
| D 40014 | 83092 150 4500 | DIODE 1N4148 |
| D 40031 | 83092 150 2000 | DIODE 1 N 4004 -GA |
| D 40051 | 83092 150 2000 | DIODE 1 N 4004 -GA |
| D 40064 | 83092 150 4500 | DIODE 1N4148 |
| D 40270 | 83092 150 2000 | DIODE 1 N 4004 -GA |
| IC 40110 | 83054 334 0400 | IC MSP340CD-PO |
| IC 40250 | 83050 050 5300 | IC HEF4053BP PHI |
| IC 41050 | 83052 935 5600 | IC RC4556NB/ NJM4556AD |
| L 40021 | 81049 820 1400 | DAEMPF-PERLE 4330C3038102 |
| L 40041 | 81049 820 1400 | DAEMPF-PERLE 4330C3038102 |
| L 40111 | 81405 057 4900 | DR B 10UH 5% |
| Q 40212 | 83824 391 8600 | QUARZ #439-9 18,432MHZ 12PF |
| R 40002 ⚠ | 87004 290 2300 | KSW NB 0207 8,2 OHM 5% |
| R 40074 ⚠ | 87003 290 1700 | KSW NB 0207 4,7 OHM 5% |
| R 40079 ⚠ | 87003 290 1700 | KSW NB 0207 4,7 OHM 5% |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 72010 800 0000, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!

⚠ (!)

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**BAUSTEIN NF-VERSTAERKER**
**MODULE AF AMPLIFIER**

MATERIAL-NR. / PART NO.: 29504 204 0300

| POS. NR. POS. NO. | ABB. FIG. | MATERIAL-NR. PART NUMBER | ANZ. QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| | | 29504 204 0300 | | BAUSTEIN NF-VERSTAERKER | MODULE AF AMPLIFIER |
| 0100.000 | | 29303 168 2000 | | CINCH-BUCHSE 3-FACH | CINCH SOCKET 3 FOLD |
| 2410.000 | | 29303 153 0107 | | MONTAGECLIP IC40110 | MOUNTING CLIP IC40110 |
| 2490.000 | | 29303 156 3001 | | FOLIE WAERMELEITEND IC40110 | FOIL HEAT CONDUCTING |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| C 40021 | 84529 961 5500 | ELKO 4700UF 20% 25V |
| C 40022 | 84529 961 5500 | ELKO 4700UF 20% 25V |
| C 40041 | 84529 961 5500 | ELKO 4700UF 20% 25V |
| C 40042 | 84529 961 5500 | ELKO 4700UF 20% 25V |
| CT 40060 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 40066 | 83010 058 1800 | SMD-TRANS.3C 818-25 |
| CT 40171 | 83010 068 5800 | SMD-TRANS.3C 858 C |
| CT 40181 | 83010 068 5800 | SMD-TRANS.3C 858 C |
| CT 40191 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 40270 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 40275 | 83010 058 1800 | SMD-TRANS.3C 818-25 |
| CT 40280 | 83010 058 1800 | SMD-TRANS.3C 818-25 |
| CT 40290 | 83010 058 1800 | SMD-TRANS.3C 818-25 |
| CT 40295 | 83010 058 1800 | SMD-TRANS.3C 818-25 |
| CT 40325 | 83010 058 1800 | SMD-TRANS.3C 818-25 |
| CT 40330 | 83010 058 1800 | SMD-TRANS.3C 818-25 |
| CT 40410 | 83010 068 5800 | SMD-TRANS.3C 858 C |
| CT 40420 | 83010 068 5800 | SMD-TRANS.3C 858 C |
| CT 40431 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 40441 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 40453 | 83010 038 5800 | SMD-TRANS.3C 858 B |
| CT 40455 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 40460 | 83010 058 1800 | SMD-TRANS.3C 818-25 |
| CT 40465 | 83010 058 1800 | SMD-TRANS.3C 818-25 |
| CT 40473 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 40475 | 83010 048 4800 | SMD-TRANS.3C 848 B |
| CT 41031 | 83010 058 1800 | SMD-TRANS.3C 818-25 |
| CT 41041 | 83010 058 1800 | SMD-TRANS.3C 818-25 |
| D 40031 | 83092 150 2000 | DIODE 1 N 4004 -GA |
| D 40041 | 83092 150 2000 | DIODE 1 N 4004 -GA |
| D 40063 | 83092 150 4500 | DIODE 1N4148 |
| D 40064 | 83092 150 4500 | DIODE 1N4148 |
| D 40270 | 83092 150 2000 | DIODE 1 N 4004 -GA |
| D 40462 | 83091 985 4200 | DIODE BAT42/43 |
| D 40463 | 83091 985 4200 | DIODE BAT42/43 |
| D 40467 | 83091 985 4200 | DIODE BAT42/43 |
| D 40468 | 83091 985 4200 | DIODE BAT42/43 |
| IC 40110 | 83054 334 1100 | IC MSP3410D-PO-B3 |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| IC 40250 | 83052 055 5100 | IC MC14551BCP MOT |
| IC 40305 | 83051 474 1900 | IC DPL3519A-PO-A2 DIP52 |
| IC 41050 | 83052 935 5600 | IC RC4556NB/NJM4556AD |
| L 40021 | 81049 820 1400 | DAEMPF-PERLE 4330C3038102 |
| L 40041 | 81049 820 1400 | DAEMPF-PERLE 4330C3038102 DAMPING BEAD |
| L 40111 | 81405 057 4900 | DR B 10UH 5% |
| L 40301 | 81405 057 4900 | DR B 10UH 5% |
| L 40302 | 81049 820 1400 | DAEMPF-PERLE 4330C3038102 DAMPING BEAD |
| Q 40212 | 83824 391 8600 | QUARZ #439-9 18,432MHZ 12PF |
| Q 40321 | 83824 391 8600 | QUARZ #439-9 18,432MHZ 12PF |
| R 40001 ⚠ | 87011 190 2300 | KSW SI B 8,2 OHM 5% |
| R 40006 ⚠ | 87011 190 2300 | KSW SI B 8,2 OHM 5% |
| R 40074 ⚠ | 87011 190 1700 | KSW SI B 4,7 OHM 5% |
| R 40079 ⚠ | 87011 190 1700 | KSW SI B 4,7 OHM 5% |
| R 40094 ⚠ | 87011 190 1700 | KSW SI B 4,7 OHM 5% |
| R 40099 ⚠ | 87011 190 1700 | KSW SI B 4,7 OHM 5% |
| R 40469 ⚠ | 87011 190 1700 | KSW SI B 4,7 OHM 5% |
| R 40474 ⚠ | 87011 190 1700 | KSW SI B 4,7 OHM 5% |
| R 40489 ⚠ | 87011 190 1700 | KSW SI B 4,7 OHM 5% |
| R 40494 ⚠ | 87011 190 1700 | KSW SI B 4,7 OHM 5% |

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⚠ (!)

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## BAUSTEIN NF VIRTUAL DOLBY MULTI
## MODULE AF VIRTUAL DOLBY MULTI

MATERIAL-NR. / PART NO.: 29504 204 0400

| POS. NR. ABB. POS. NO. FIG. | MATERIAL-NR. ANZ. PART NUMBER QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|
| | 29504 204 0400 | BAUSTEIN NF-VIRTUAL DOLBY MULTI | MODULE AF-VIRTUAL DOLBY MULTI |
| 0253.000 | 29303 168 0900 | CINCH-BJCHSE 2-FACH NF R,L | CINCH SOCKET 2 FOLD AF R,L |
| 2490.000 | 29303 156 3101 | FOLIE WAERMELEITEND IC40070 | FOIL HEAT CONDUCTING IC40070 |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| C 40021 | 84529 961 5500 | ELKO 4700UF 20% 25V |
| C 40041 | 84529 961 5500 | ELKO 4700UF 20% 25V |
| C 40066 | 86682 030 0100 | ABBLOCK-C 0,01 UF -GR 25V |
| CT 40013 | 83010 038 5800 | SMD TRANS BC858B |
| CT 40066 | 83010 058 1800 | SMD-TRANS.BC 818-25 |
| CT 40171 | 83010 068 5800 | SMD-TRANS.BC 858 C |
| CT 40181 | 83010 068 5800 | SMD-TRANS.BC 858 C |
| CT 40270 | 83010 038 5800 | SMD TRANS BC858B |
| CT 40275 | 83010 058 1800 | SMD-TRANS.BC 818-25 |
| CT 40280 | 83010 058 1800 | SMD-TRANS.BC 818-25 |
| CT 40290 | 83010 058 1800 | SMD-TRANS.BC 818-25 |
| CT 40295 | 83010 058 1800 | SMD-TRANS.BC 818-25 |
| CT 41031 | 83010 058 1800 | SMD-TRANS.BC 818-25 |
| CT 41041 | 83010 058 1800 | SMD-TRANS.BC 818-25 |
| D 40014 | 83092 150 4500 | DIODE 1N4148 |
| D 40031 | 83092 150 2000 | DIODE 1 N 4004 |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| D 40051 | 83092 150 2000 | DIODE 1 N 4004 |
| D 40064 | 83092 150 4500 | DIODE 1N4148 |
| D 40270 | 83092 150 2000 | DIODE 1 N 4004 |
| IC 40070 | 83053 372 6500 | IC TDA7265 SGS |
| IC 40110 | 83054 334 5100 | IC MSP3451 |
| IC 40250 | 83054 334 1500 | IC MSP3411 |
| IC 40250 | 83050 050 5300 | IC HEF4053BP PH |
| IC 41050 | 83052 935 5600 | IC RC4556NB |
| L 40021 | 81049 820 1400 | DAEMPF-PERLE 433003038102 |
| L 40041 | 81049 820 1400 | DAEMPF-PERLE 433003038102 DAMPING BEAD |
| L 40111 | 81405 052 4900 | DR A AX-GA 10UH 10% |
| Q 40212 | 83824 391 8600 | QUARZ #439-9 18,432MHZ 12PF |
| R 40002 ⚠ | 87004 290 2300 | KSW NB 0207 8,2 OHM 5% |
| R 40074 ⚠ | 87003 290 1700 | KSW NB 0207 4,7 OHM 5% |
| R 40079 ⚠ | 87003 290 1700 | KSW NB 0207 4,7 OHM 5% |

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## BAUSTEIN NF-VIRTUAL DOLBY
## MODULE AF-VIRTUAL DOLBY

MATERIAL-NR. / PART NO.: 29504 204 0500

| POS. NR. ABB. POS. NO. FIG. | MATERIAL-NR. ANZ. PART NUMBER QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|
| | 29504 204 0500 | BAUSTEIN NF-VIRTUAL DOLBY KEIN E-TEIL | MODULE AF-VIRTUAL DOLBY NO SPARE PART |
| C253.000 | 29303 168 0900 | CINCH-BUCHSE 2-FACH RT/WS | CINCH SOCKET 2 FOLD |
| 2410.000 | 29303 153 01074 | MONTAGECLIP IC40070/40090/40460/40480 | MOUNTING CLIP IC40070/40090/40460/40480 |
| 2495.000 | 29303 156 32014 | FOLIE WAERMELEITEND IC40070/ 40090/40460/40480 | FOIL HEAT CONDUCTING IC40070/ 40090/40460/40480 |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| C 40021 | 84529 961 5500 | ELKO 4700UF 20% 25V |
| C 40041 | 84529 961 5500 | ELKO 4700UF 20% 25V |
| CT 40060 | 83010 038 5800 | SMD TRANS BC858B |
| CT 40171 | 83010 068 5800 | SMD-TRANS.BC 858 C |
| CT 40181 | 83010 068 5800 | SMD-TRANS.BC 858 C |
| CT 40270 | 83010 038 5800 | SMD TRANS BC858B |
| CT 40275 | 83010 058 1800 | SMD-TRANS.BC 818-25 |
| CT 40280 | 83010 058 1800 | SMD-TRANS.BC 818-25 |
| CT 40290 | 83010 058 1800 | SMD-TRANS.BC 818-25 |
| CT 40295 | 83010 058 1800 | SMD-TRANS.BC 818-25 |
| CT 40455 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 41031 | 83010 058 1800 | SMD-TRANS.BC 818-25 |
| CT 41041 | 83010 058 1800 | SMD-TRANS.BC 818-25 |
| D 40031 | 83092 150 2000 | DIODE 1 N 4004 |
| D 40041 | 83092 150 2000 | DIODE 1 N 4004 |
| D 40063 | 83092 150 4500 | DIODE 1N4148 |
| D 40064 | 83092 150 4500 | DIODE 1N4148 |
| D 40270 | 83092 150 2000 | DIODE 1 N 4004 |
| IC 40070 | 83053 372 6500 | IC TDA 7265 |
| IC 40090 | 83053 372 6500 | IC TDA 7265 |
| IC 40110 | 83054 334 1100 | IC MSP3410D-PO-E4 |
| IC 40335 | 83051 474 1900 | IC DPL3519A-PO-A2 |
| IC 40480 | 83053 372 6500 | IC TDA 7265 |
| IC 40480 | 83053 372 6500 | IC TDA 7265 |
| IC 41050 | 83052 935 5600 | IC RC4556NB |
| L 40021 | 81049 820 1400 | DAEMPF-PERLE |
| L 40041 | 81049 820 1400 | DAEMPF-PERLE DAMPING BEAD |
| L 40111 | 81405 057 4900 | DR B 10,JH 5% |
| L 40301 | 81405 057 4900 | DR B 10,JH 5% |
| L 40302 | 81049 820 1400 | DAEMPF-PERLE DAMPING BEAD |
| Q 40212 | 83824 391 8600 | QUARZ #439-9 18,432MHZ |
| Q 40321 | 83824 391 8600 | QUARZ #439-9 18,432MHZ |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| R 40001 ⚠ | 87011 190 2300 | KSW SI B 8,2 OHM 5% |
| R 40006 ⚠ | 87011 190 2300 | KSW SI B 8,2 OHM 5% |
| R 40469 ⚠ | 87011 190 1700 | KSW SI B 4,7 OHM 5% |
| R 40474 ⚠ | 87011 190 1700 | KSW SI B 4,7 OHM 5% |

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 72010 800 0000, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!

The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 72010 800 0000, as well as the respective national deviations.

Btx *32700#

ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

GRUNDIG

Ersatzteilliste
Spare Parts List

TV

# 3 / 99 FEATURE BOX BASIC 3

MATERIAL-NR. / PART NO.: 29504 209 0100

| POS. NR. POS. NO. | ABB. FIG. | MATERIAL-NR. PART NUMBER | ANZ. QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| | | 29504 209 0100 | | FEATURE-BOX BASIC 3 | FEATURE BOX BASIC 3 |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| CD 01350 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 01351 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 01403 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 01406 | 83094 550 5200 | MELF-Z DIODE 5,1 B 0,5W |
| CD 01407 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 01418 | 83091 950 4200 | SMD DIODE BAR42 SGS |
| CD 01419 | 83094 550 4000 | MELF-Z DIODE 3,9 B 0,5W |
| CD 01530 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 01532 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 01533 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 01534 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 01663 | 83094 550 5200 | MELF-Z DIODE 5,1 B 0,5W |
| CD 01687 | 83094 550 5200 | MELF-Z DIODE 5,1 B 0,5W |
| CIC01320 | 83058 377 0500 | IC TL7705ACD-R TID |
| CIC01350 | 83059 932 0000 | SMD IC VPC3210A-PS-S10 |
| CIC01360 | 83059 732 5000 | SMD IC CIP3250A-PS-E1 ITT |
| CIC01410 | 83059 493 6200 | SMD IC SDA9362 SIE |
| CIC01600 | 83059 492 9000 | SMD IC SDA9290 |
| CIC01605 | 83059 492 5100 | SMD IC SDA9251-2X |
| CIC01610 | 83059 492 5100 | SMD IC SDA9251-2X |
| CIC01615 | 83059 492 5100 | SMD IC SDA9251-2X |
| CIC01620 | 83059 492 5100 | SMD IC SDA9251-2X |
| CIC01625 | 83059 492 5100 | SMD IC SDA9251-2X |
| CIC01630 | 83059 492 5100 | SMD IC SDA9251-2X |
| CIC01640 | 83059 492 8200 | SMD IC SDA9280-B22 |
| CIC01650 | 83059 492 2000 | SMD IC SDA9220 |
| CIC01660 | 83057 792 2100 | SMD IC 74LS221 |
| CIC01700 | 83059 492 7000 | SMD IC SDA9270 SIE |
| CIC02020 | 83057 870 5300 | IC M74HC4C53RM13TR |
| CT 01501 | 83010 048 4900 | SMD-TRANS.BC 849 B |
| CT 01506 | 83011 660 5100 | SMD-TRANS.BCX 51-16 |
| CT 01511 | 83010 048 4900 | SMD-TRANS.BC 849 B |
| CT 01516 | 83011 660 5100 | SMD-TRANS.BCX 51-16 |
| CT 01521 | 83010 048 4900 | SMD-TRANS.BC 849 B |
| CT 01526 | 83011 660 5100 | SMD-TRANS.BCX 51-16 |
| CT 01541 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 01545 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 01561 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 01675 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 01680 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 02057 | 83010 038 5800 | SMD-TRANS.BC 858 B |
| CT 02058 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 02059 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| F 02000 | 81406 023 1900 | FILTER 5X5 #319 4FACH |
| IC 01310 | 83052 047 0500 | IC L78M05CX SGS |
| L 01306 | 81405 320 8500 | SPULE 5X5 085 SIGN 532085 |
| L 01308 | 81405 320 8600 | SPULE 5X5 086 SIGN 532086 |
| L 01310 | 81049 820 1400 | DAEMPF-PERLE 433003038102 |
| L 01313 | 81049 820 1400 | DAEMPF-PERLE 433003038102 |
| L 01315 | 81049 820 1400 | DAEMPF-PERLE 433003038102 |
| L 01317 | 81049 820 1400 | DAEMPF-PERLE 433003038102 |
| L 01350 | 81049 820 1400 | DAEMPF-PERLE 433003038102 |
| L 01351 | 09241 035 9700 | STABKERNDROSSEL |
| L 01352 | 81049 820 1400 | DAEMPF-PERLE 433003038102 |
| L 01353 | 09241 035 9700 | STABKERNDROSSEL |
| L 01357 | 09241 035 9700 | STABKERNDROSSEL |
| L 01358 | 81049 820 1400 | DAEMPF-PERLE 433003038102 |
| L 01360 | 81405 258 9700 | DR AX 0411-GA 100UH 5% |
| L 01370 | 81049 820 1400 | DAEMPF-PERLE 433003038102 |
| L 01372 | 81049 820 1400 | DAEMPF-PERLE 433003038102 |
| L 01374 | 81405 258 9700 | DR AX 0411-GA 100UH 5% |
| L 01401 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01402 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01403 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01407 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01411 | 81405 265 3600 | DR 0411 4,7UH 10% |
| L 01412 | 81405 265 3600 | DR 0411 4,7UH 10% |
| L 01421 | 81049 820 1400 | DAEMPF-PERLE 433003038102 |
| L 01423 | 81049 820 1400 | DAEMPF-PERLE 433003038102 |
| L 01508 | 81049 820 1400 | DAEMPF-PERLE 433003038102 |
| L 01509 | 81405 258 2800 | DR AX 0411-GA 2,2UH 10% |
| L 01518 | 81049 820 1400 | DAEMPF-PERLE 433003038102 |
| L 01531 | 81049 820 1400 | DAEMPF-PERLE 433003038102 |
| L 01532 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01533 | 81049 820 1400 | DAEMPF-PERLE 433003038102 |
| L 01536 | 81049 820 1400 | DAEMPF-PERLE 433003038102 |
| L 01537 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01538 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01543 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01544 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01546 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01563 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01608 | 81049 820 1400 | DAEMPF-PERLE 433003038102 |
| L 01641 | 81049 820 1400 | DAEMPF-PERLE 433003038102 |
| L 01651 | 81049 820 1400 | DAEMPF-PERLE 433003038102 |
| L 01656 | 81049 820 1400 | DAEMPF-PERLE 433003038102 |
| L 01662 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01636 | 81049 820 1400 | DAEMPF-PERLE 433003038102 |
| L 01637 | 81405 258 9700 | DR AX 0411-GA 100UH 5% |
| Q 01365 | 83824 422 0300 | QUARZ #442-1 20,25MHZ |
| Q 01408 | 83822 495 9700 | QUARZ 12,0 MHZ Q 330/2A |
| Q 01695 | 83824 376 7500 | QUARZ 6,75MHZ Q 437-5/2B |



ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION



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Spare Parts List

TV

# 3 / 99 FEATURE BOX BASIC 3

MATERIAL-NR. / PART NO.: 29504 209 0200

| POS. NR. POS. NO. | ABB. FIG. | MATERIAL-NR. PART NUMBER | ANZ. QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| | | 29504 209 0200 | | FEATURE-BOX BASIC 3 | FEATURE BOX BASIC 3 |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| CD 01350 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 01351 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 01403 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 01406 | 83094 550 5200 | MELF-Z DIODE 5,1 B 0,5W |
| CD 01407 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 01418 | 83091 950 4200 | SMD DIODE BAR42 SGS |
| CD 01419 | 83094 550 4000 | MELF-Z DIODE 3,9 B 0,5W |
| CD 01530 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 01532 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 01533 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 01534 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 01663 | 83094 550 5200 | MELF-Z DIODE 5,1 B 0,5W |
| CD 01687 | 83094 550 5200 | MELF-Z DIODE 5,1 B 0,5W |
| CD 02011 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 02012 | 83250 041 4800 | SMD DIODE LS 4148 |
| CIC01320 | 83058 377 0500 | IC TL7705ACD-R TID |
| CIC01350 | 83059 932 1100 | SMD IC VPC3211A ITT |
| CIC01360 | 83059 732 5000 | SMD IC CIP3250A-PS-B1 |
| CIC01410 | 83059 493 6200 | SMD IC SDA9362 SIE |
| CIC01640 | 83059 492 8200 | SMD IC SDA9280-E22 |
| CIC02011 | 83057 860 0200 | SMD IC 74HC02 |
| CIC02020 | 83057 870 5300 | IC M74HC4053RM13TR |
| CT 01501 | 83010 048 4900 | SMD-TRANS.BC 849 B |
| CT 01506 | 83011 660 5100 | SMD-TRANS.BCX 51-16 |
| CT 01511 | 83010 048 4900 | SMD-TRANS.BC 849 B |
| CT 01516 | 83011 660 5100 | SMD-TRANS.BCX 51-16 |
| CT 01521 | 83010 048 4900 | SMD-TRANS.BC 849 B |
| CT 01526 | 83011 660 5100 | SMD-TRANS.BCX 51-16 |
| CT 01541 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 01545 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 01561 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 01675 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 01680 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 02057 | 83010 038 5800 | SMD-TRANS.BC 858 B |
| CT 02058 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 02059 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| F 02000 | 81406 023 1900 | FILTER 5X5 #319 4FACH |
| IC 01690 | 83059 492 2000 | SMD IC SDA9220 |
| IC 02010 | 83059 492 5400 | SMD IC SDA9254 SIE |
| L 01306 | 81405 320 8500 | SPULE 5X5 085 SIGN 532085 |
| L 01308 | 81405 320 8600 | SPULE 5X5 086 SIGN 532086 |
| L 01310 | 81049 820 1400 | DAEMPF-PERLE 433003C38102 |
| L 01313 | 81049 820 1400 | DAEMPF-PERLE 433003C38102 |
| L 01315 | 81049 820 1400 | DAEMPF-PERLE 433003C38102 |
| L 01317 | 81049 820 1400 | DAEMPF-PERLE 433003C38102 |
| L 01350 | 81049 820 1400 | DAEMPF-PERLE 433003C38102 DAMPING BEAD |
| L 01351 | 09241 035 9700 | STABKERNDROSSEL BAR CORE CHOKE COIL |
| L 01352 | 81049 820 1400 | DAEMPF-PERLE 433003C38102 DAMPING BEAD |
| L 01353 | 09241 035 9700 | STABKERNDROSSEL BAR CORE CHOKE COIL |
| L 01358 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01360 | 81405 258 9700 | DR AX 0411-GA 100UH 5% |
| L 01370 | 81049 820 1400 | DAEMPF-PERLE 433003C38102 |
| L 01372 | 81049 820 1400 | DAEMPF-PERLE 433003C38102 DAMPING BEAD |
| L 01374 | 81405 258 9700 | DR AX 0411-GA 100UH 5% |
| L 01401 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01402 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01403 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01407 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01411 | 81405 265 3600 | DR 0411 4,7UH 10% |
| L 01412 | 81405 265 3600 | DR 0411 4,7UH 10% |
| L 01421 | 81049 820 1400 | DAEMPF-PERLE 433003C38102 |
| L 01423 | 81049 820 1400 | DAEMPF-PERLE 433003C38102 |
| L 01508 | 81049 820 1400 | DAEMPF-PERLE 433003C38102 DAMPING BEAD |
| L 01509 | 81405 258 2800 | DR AX 0411-GA 2,2UH 10% |
| L 01518 | 81049 820 1400 | DAEMPF-PERLE 433003C38102 |
| L 01531 | 81049 820 1400 | DAEMPF-PERLE 433003C38102 DAMPING BEAAD |
| L 01532 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01533 | 81049 820 1400 | DAEMPF-PERLE 433003C38102 |
| L 01536 | 81049 820 1400 | DAEMPF-PERLE 433003C38102 |
| L 01537 | 81049 820 1400 | DAEMPF-PERLE 433003C38102 DAMPING BEAD |
| L 01538 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01543 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01544 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01546 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01563 | 81405 265 3400 | DR 0411 10UH 10% |
| L 01641 | 81049 820 1400 | DAEMPF-PERLE 433003C38102 |
| L 01651 | 81049 820 1400 | DAEMPF-PERLE 433003C38102 |
| L 01656 | 81049 820 1400 | DAEMPF-PERLE 433003C38102 DAMPING BEAD |



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Spare Parts List

SAT

## 3 / 99

**BAUSTEIN SAT**
**MODULE SAT**

MATERIAL-NR. / PART NO.: 29504 222 0100

| POS. NR. POS. NO. | ABB. FIG. | MATERIAL-NR. PART NUMBER | ANZ. QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| | | 29504 222 0100 | | BAUSTEIN SAT | MODULE SAT |
| 0100.000 | | 29504 201 9100 | | TUNER ANALOG | TUNER ANALOG |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| C 38101 | 84529 670 2100 | ELKO AMM05 1000UF 6,3V |
| CD 38038 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 38061 | 83253 280 2200 | SMD DIODE BYG22B TEMIC |
| CD 38110 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 38188 | 83250 041 4800 | SMD DIODE LS 4148 |
| CD 38201 | 83094 015 9200 | SMD DIODE BA592 SIE |
| CD 38366 | 83250 041 4800 | SMD DIODE LS 4148 |
| CIC38010 | 83057 340 9400 | SMD IC HEF4094BT |
| CIC38080 | 83058 105 5500 | SMD IC NE555D |
| CIC38091 | 83059 600 6500 | SMD IC M24C64-MN6T |
| CIC38092 | 83059 600 6500 | SMD IC M24C64-MN6T |
| CIC38175 | 83058 461 5100 | SMD IC TDA6151X |
| CIC38205 | 83058 185 9100 | SMD IC PCF8591T-T3 |
| CR38034 ⚠ | 87063 200 4900 | SMD R SI 1206 100 OHM 5% |
| CR38121 ⚠ | 87063 200 1700 | SMD R SI 1206 4,7 OHM 5% |
| CR38359 ⚠ | 87063 200 4100 | SMD R SI 1206 47 OHM 5% |
| CT 38020 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 38021 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 38040 | 83010 038 5800 | SMD-TRANS.BC 858 B |
| CT 38045 | 83017 099 5500 | SMD TRANS SI9945AEY-T1 |
| CT 38060 | 83017 094 4700 | SMD TRANS SI4947DYT1 |
| CT 38065 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 38070 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 38125 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 38130 | 83010 038 5800 | SMD-TRANS.BC 858 B |
| CT 38135 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 38140 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 38150 | 83011 305 5000 | SMD TRANS BF550 |
| CT 38185 | 83010 038 5800 | SMD-TRANS.BC 858 B |
| CT 38190 | 83010 038 5800 | SMD-TRANS.BC 858 B |
| CT 38194 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 38195 | 83010 038 5800 | SMD-TRANS.BC 858 B |
| CT 38196 | 83010 038 5800 | SMD-TRANS.BC 858 B |
| CT 38201 | 83010 048 4800 | SMD-TRANS.BC 848 B |
| CT 38206 | 83010 038 5800 | SMD-TRANS.BC 858 B |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| D 38046 | 83097 030 2000 | Z-DIODE ZPY16 ITT |
| D 38047 | 83095 168 5200 | DIODE BYT 52 M |
| D 38051 | 83095 162 7200 | DIODE BYV27/200 PHI |
| F 38183 | 81406 023 1900 | FILTER 5X5 #319 4FACH |
| IC 38000 | 83054 334 0200 | IC MSP3400C-PO-C6 |
| IC 38030 | 83052 100 6300 | IC MC34063AP MOT |
| IC 38110 | 83051 920 0900 | IC 78L09AC |
| L 38002 | 81405 254 5500 | SIEBDR.-GR 47UH LHLC06 |
| L 38008 | 81405 254 5500 | SIEBDR.-GR 47UH LHLC06 |
| L 38032 | 81405 254 5500 | SIEBDR.-GR 47UH LHLC06 |
| L 38056 | 81405 254 4400 | SIEBDR.-GR 100UH LHL08 |
| L 38077 | 81405 264 5900 | DR 0309 47UH 5% |
| L 38101 | 81405 254 5500 | SIEBDR.-GR 47UH LHLC06 |
| L 38144 | 81405 264 8500 | DR ST 0309-GRP 27UH 10% |
| L 38156 | 81405 260 6300 | DR 0309 15UH 10% |
| L 38342 | 81405 117 4900 | DR AX 0411-GA 10UH 10% |
| MF38063 ⚠ | 83151 001 6400 | MULTIFUSE 400MA |
| Q 38005 | 83824 391 8500 | QUARZ 18,432 MHZ Q 439-8/ |

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 72010 800 0000, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!

The regulations and safety instructions shall be valid as provided by the "Safety" Service Manua , part number 72010 800 0000, as well as the respective national deviations.

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**BILDROHRPLATTE**
**PICTURE TUBE BOARD**

MATERIAL-NR. / PART NO.: 29305 122 2400

| POS. NR. POS. NO. | ABB. FIG. | MATERIAL-NR. PART NUMBER | ANZ. QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| | | 29305 122 2400 | | BILDROHRPLATTE | PICTURE TUBE BOARD |
| C100.000 | ⚠ | 29303 758 0100 | | BILDROHRFASSUNG | BILDROHRFASSUNG |
| 2420.000 | | 29303 153 0208 | 3 | MONTAGECLIP IC24000/24030/24070 | MOUNTING CLIP IC24000/24030/24070 |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| C 21104 | 85637 319 4700 | FOKO MKS4 4700PF 10% 2000V |
| C 24003 | 86682 030 0200 | ABBLOCK-C 0,022UF -GR 25V |
| C 24006 | 86682 030 2300 | ABBLOCK-C 0,1 UF -GR 25V |
| C 24013 | 86682 030 2300 | ABBLOCK-C 0,1 UF -GR 25V |
| C 24033 | 86682 030 0200 | ABBLOCK-C 0,022UF -GR 25V |
| C 24036 | 86682 030 2300 | ABBLOCK-C 0,1 UF -GR 25V |
| C 24073 | 86682 030 0200 | ABBLOCK-C 0,022UF -GR 25V BLOCKING CAPACITOR |
| D 24007 | 83092 000 2100 | DIODE BAV21 ITT |
| D 24008 | 83092 000 2100 | DIODE BAV21 ITT |
| D 24011 | 83097 200 3300 | Z DIODE 3,3 C 0,5W |
| D 24037 | 83092 000 2100 | DIODE BAV21 ITT |
| D 24038 | 83092 000 2100 | DIODE BAV21 ITT |
| D 24071 | 83092 150 4500 | DIODE 1N4148 |
| D 24077 | 83092 000 2100 | DIODE BAV21 ITT |
| D 24078 | 83092 000 2100 | DIODE BAV21 ITT |
| D 65002 | 83092 150 4500 | DIODE 1N4148 |
| D 65003 | 83092 150 4500 | DIODE 1N4148 |
| D 65011 | 83092 150 4500 | DIODE 1N4148 |
| D 65017 | 83092 150 4500 | DIODE 1N4148 |
| D 65021 | 83092 150 4500 | DIODE 1N4148 |
| D 65027 | 83092 150 4500 | DIODE 1N4148 |
| IC 24000 | 83053 361 1100 | TDA 6111 N4 |
| IC 24030 | 83053 361 1100 | TDA 6111 N4 |
| IC 24070 | 83053 361 1100 | TDA 6111 N4 |
| R 21106 | 87024 010 7700 | KMW 0411 1,5 KOHM 10% |
| R 65016 | 87000 112 3400 | KSW 0204 24 OHM 5% |
| R 65022 | 87000 112 7600 | KSW 0204 1,3 KOHM 5% |
| R 65026 | 87000 112 3400 | KSW 0204 24 OHM 5% |
| T 65005 | 83032 753 2800 | TRANS.BC 328-40 |
| T 65010 | 83032 753 3800 | TRANS.BC 338-40 |
| T 65015 | 83026 247 9300 | TRANS.2 SC 4793 TOS |
| T 65025 | 83026 118 3700 | TRANS.2 SA 1837 TOS |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 72010 800 0000, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!

The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 72010 800 0000, as well as the respective national deviations.

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION

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Ersatzteilliste
Spare Parts List

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**BILDROHRPLATTE**
**PICTURE TUBE BOARD**

MATERIAL-NR. / PART NO.: 29305 122 2600

| POS. NR. POS. NO. | ABB. FIG. | MATERIAL-NR. PART NUMBER | ANZ. QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| | | 29305 122 2600 | | BILDROHRPLATTE | PICTURE TUBE BOARD |
| 0100.000 | ⚠ | 29303 752 1500 | | BILDROHRFASSUNG | CRT SOCKET |
| 0200.000 | ⚠ | 29201 361 0400 | | FOKUS.U.UG2-REGLER | FOCUS AND UG2-CONTROLLER |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| C 21104 | ⚠ 85637 316 1200 | FOKO KF #21 0,01UF 20% 1500V |
| C 24003 | 86682 030 0200 | ABBLOCK-C 0,022UF -GR 25V |
| C 24006 | 86682 030 2300 | ABBLOCK-C 0,1 UF -GR 25V |
| C 24013 | 86682 030 2300 | ABBLOCK-C 0,1 UF -GR 25V |
| C 24033 | 86682 030 0200 | ABBLOCK-C 0,022UF -GR 25V |
| C 24036 | 86682 030 2300 | ABBLOCK-C 0,1 UF -GR 25V |
| C 24073 | 86682 030 0200 | ABBLOCK-C 0,022UF -GR 25V BLOCKING CAPACITOR |
| D 24007 | 83092 000 2100 | DIODE BAV21 ITT |
| D 24008 | 83092 000 2100 | DIODE BAV21 ITT |
| D 24011 | 83097 200 3300 | Z DIODE 3,3 C 0,5W |
| D 24037 | 83092 000 2100 | DIODE BAV21 ITT |
| D 24038 | 83092 000 2100 | DIODE BAV21 ITT |
| D 24071 | 83092 150 4500 | DIODE 1N4148 |
| D 24077 | 83092 000 2100 | DIODE BAV21 ITT |
| D 24078 | 83092 000 2100 | DIODE BAV21 ITT |
| D 65002 | 83092 150 4500 | DIODE 1N4148 |
| D 65003 | 83092 150 4500 | DIODE 1N4148 |
| D 65011 | 83092 150 4500 | DIODE 1N4148 |
| D 65017 | 83092 150 4500 | DIODE 1N4148 |
| D 65021 | 83092 150 4500 | DIODE 1N4148 |
| D 65027 | 83092 150 4500 | DIODE 1N4148 |
| R 21106 | 87024 010 7700 | KMW 0411 1,5 KOHM 10% |
| R 65016 | 87000 112 3400 | KSW C204 24 OHM 5% |
| R 65022 | 87000 112 7600 | KSW C204 1,3 KOHM 5% |
| R 65026 | 87000 112 3400 | KSW C204 24 OHM 5% |
| T 65005 | 83032 753 2800 | TRANS.BC 328-40 |
| T 65010 | 83032 753 3800 | TRANS.BC 338-40 |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 72010 800 0000, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!

⚠ (!)

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION



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**BILDROHRPLATTE**
**PICTURE TUBE BOARD**

MATERIAL-NR. / PART NO.: 29305 122 3000

| POS. NR. POS. NO. | ABB. FIG. | MATERIAL-NR. PART NUMBER | ANZ. QTY. | BEZEICHNUNG (D) | DESCRIPTION (GB) |
|---|---|---|---|---|---|
| | | 29305 122 3000 | | BILDROHRPLATTE BASIC 3 | PICTURE TUBE BOARD BASIC |
| 0100.000 | ⚠ | 29303 752 1500 | | BILDROHRFASSUNG | CRT SOCKET |
| 0200.000 | | 29303 153 0200 | | MONTAGECLIP IC730/750/770 | MOUNTING CLIP IC730/750/770 |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| C 21104 | 85637 316 1200 | FOKO KF #21 0,01UF 20% |
| C 24003 | 86682 030 0200 | ABBLOCK-C 0,022UF |
| C 24006 | 86682 030 2300 | ABBLOCK-C 0,1 UF |
| C 24013 | 86682 030 2300 | ABBLOCK-C 0,1 UF |
| C 24033 | 86682 030 0200 | ABBLOCK-C 0,022UF |
| C 24036 | 86682 030 2300 | ABBLOCK-C 0,1 UF |
| C 24073 | 86682 030 0200 | ABBLOCK-C 0,022UF BLOCKING CAPACITOR |
| D 24007 | 83092 000 2100 | DIODE BAV21 |
| D 24008 | 83092 000 2100 | DIODE BAV21 |
| D 24011 | 83097 200 3300 | Z DIODE 3,3 C 0,5W |
| D 24037 | 83092 000 2100 | DIODE BAV21 |
| D 24038 | 83092 000 2100 | DIODE BAV21 |
| D 24071 | 83092 150 4500 | DIODE 1N4148 |
| D 24077 | 83092 000 2100 | DIODE BAV21 |
| D 24078 | 83092 000 2100 | DIODE BAV21 |
| D 65011 | 83092 150 4500 | DIODE 1N4148 |
| D 65017 | 83092 150 4500 | DIODE 1N4148 |
| D 65021 | 83092 150 4500 | DIODE 1N4148 |
| D 65027 | 83092 150 4500 | DIODE 1N4148 |
| IC 730 | 83053 361 1100 | TDA 6111 N4 |
| IC 750 | 83053 361 1100 | TDA 6111 N4 |
| IC 770 | 83053 361 1100 | TFA 6111 N4 |
| L 65002 | 81049 820 1400 | DAEMPF-PERLE DAMPING BEAD |
| L 65019 | 81405 249 5000 | ENTSTOER-DR 2X470UH INTERFERENCE CHOKE |
| L 65023 | 81049 820 1400 | DAEMPF-PERLE DAMPING BEAD |
| R 21106 | 87024 010 7700 | KMW 0411 1,5 KOHM 10% |
| R 21116 | 87024 010 5900 | KMW 0411 270 OHM 5% |
| R 24003 | 87650 443 2100 | MSW 0414 100 KOHM 2% |
| R 24008 | 87024 010 7300 | KMW 0411 1 KOHM 10% |
| R 24033 | 87650 443 2100 | MSW 0414 100 KOHM 2% |

| POS. NR. POS. NO. | MATERIAL-NR. PART NUMBER | BEZEICHNUNG DESCRIPTION |
|---|---|---|
| R 24033 | 87024 010 7300 | KMW 0411 1 KOHM 10% |
| R 24073 | 87650 443 2100 | MSW 0414 100 KOHM 2% |
| R 24073 | 87024 010 7300 | KMW 0411 1 KOHM 10% |
| T 07175 | 83026 118 3700 | TRANS.2 SA 1837 |
| T 07185 | 83026 247 9300 | TRANS.2 SC 4793 |
| T 65003 | 83032 055 5800 | TRANS BC558B |
| T 65004 | 83032 055 4800 | TRANS BC548B |
| T 65005 | 83032 753 2800 | TRANS.BC 328-40 |
| T 65010 | 83032 753 3800 | TRANS.BC 338-40 |

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 72010 800 0000, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!

⚠ (!)

The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 72010 800 0000, as well as the respective national deviations.

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